

Catalog *Version 4.0*

Products

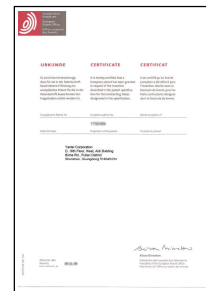
- Temperature Compensation Attenuator (温度补偿衰减器)
- NTC/PTC热敏电阻器 射频电阻器 固定衰减片(0603封装 DC-8GHz)
- 3dB 90° 电桥
- 3dB 90° 大功率宽带电桥
- 3dB 90° 插针式宽带大功率电桥
- 宽带大功率双定向耦合器
- 定向耦合器
- 宽带大功率定向耦合器 (替代MINI)
- 四相位耦合器/四相位移相器/四臂螺旋天线耦合器 (PTFE工艺)
- 2-way 0° Power Divider IC (4路功分器IC)
- 3-way 0° Power Divider IC (3路功分器IC)
- 4-way 0° Power Divider IC (4路功分器IC)
- 二路功分器 (PTFE工艺)
- 3dB 90° 电桥IC
- 定向耦合器IC
- BIAS T偏置电路-模块&MMIC系列 (替换Marki)
- 金刚石衰减片 (替换EMC)
- Fixed Attenuator IC 固定衰减片IC
- Fixed Attenuator Die 固定衰减裸片
- 同轴固定衰减器 Variable Attenuator Die 可变衰减器组合
- 微波宽带二路/四路功分器
- 微波宽带定向耦合器
- 微波宽带3dB 90° 电桥
- 金刚石负载 (替换EMC)
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- 固定衰减片
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- 旋鼓/旋钮式可变衰减器(VAX Series, step 步进式)
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- 薄膜微带带通滤波器
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- 宽带巴伦-绕线贴片式封装(替换MINI)
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- 宽带耦合器-绕线贴片式封装(替换MINI)
- 宽带二路/四路功分器-绕线贴片式封装(替换MINI)
- 无突变可变衰减器
- 旋钮式可变衰减器 VAB Series(Step步进式)



Key Patents Lead Microwave Tech

Advanced key patented technologies for

- RF & Microwave Passive Components
- High Precision RF Passive ICs



Certificates of International Invention Patents



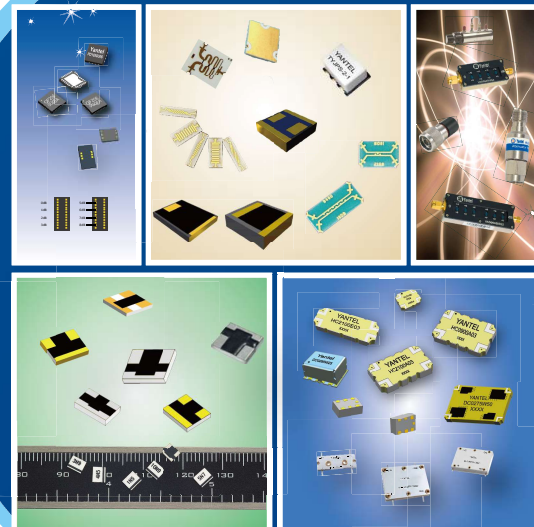
AEC-Q200
Reliability Test Report



GJB9001

ISO9001

ISO14001



Company Profile

Certificate:

- GJB 9001C-2017
- OHSAS18001
- ISO 9001:2015
- IATF16949
- ISO 14001

Yantel Corporation is a national high-tech enterprise founded by several RF and microwave experts returning from overseas, owns the core patents of passive microwave components and microwave semiconductor chips at the forefront of the world.

At present, Yantel has more than 100 patent applications and 70 authorized patents (including 42 authorized invention patents and 11 authorized integrated circuit layout-design patents). All the patent achievements reach the international leading level.

Integrating R&D, design, production and sales, Yantel has advanced production equipment for RF components, including four-channel network analyzers, high- and low-temperature incubators, ten-temperature zone lead-free reflow soldering equipment, wideband RF power tester and other advanced RF testing equipment.

Yantel has established 10 RF full-inspection automation lines via the investment of tens of millions of RMB, including RF specification testing, visual inspection, withstand voltage testing, integrated equipment of testing & tape reel, MES intelligent process control software and hardware system etc., thus ensuring the high quality of products and sufficient capacity reserve.

A number of patented products of Yantel have not only been approved as national, provincial and municipal science and technology projects by the National Technical Innovation Fund, Guangdong Industry-University-Research Collaboration Association (GDIUR) and Shenzhen Innovation Funds, but also passed the project acceptance.

Meanwhile, Yantel was as Shenzhen Intellectual Property Advantageous Enterprises 2008 and the first batch of Chinese High-Tech Enterprise. In addition, Yantel has gained the ISO9001:2008 Quality Management System Certificate, the ISO14000 Environmental Management System Certificate and GJB9001B-2009 Military Standard of Quality Management System Certificate.

Yantel has established long-term and stable cooperation with Huawei, Ericsson, ZTE, Nokia, Datang, Samsung, Comba, Fingu, Mobi, RFHIC, ACE and other famous communication enterprises at home and abroad. At the same time, Yantel's high-precision passive IC series products have been designed and used in large quantities by vehicle-mounted cell phone signal booster products such as Audi and Volkswagen in Europe. Wideband power divider ICs are widely used in Beidou, GPS, GNSS and other high-precision satellite positioning and antenna application. The main clients include BDStar, ComNav, UniStrong, Huaxin etc.

深圳市研通高频技术有限公司是由数名海外归国的射频微波专家创办的国家级高新技术企业。公司拥有居于国际前沿的微波无源器件及微波半导体芯片的核心专利技术。目前公司拥有多项国内、国际专利，这些专利成果都处于国际领先水平，在竞争激烈的国际射频元器件及半导体芯片领域中占据了中国企业自主知识产权的一席之地。

本公司集研发、设计、生产、销售于一体，拥有先进的射频元器件、芯片、组件的生产设备以及多台四通道网络分析仪，阻抗分析仪，高低温恒温箱，十温区无铅回流焊设备，宽带射频功率测试仪等高级射频测试设备。

研通斥资数千万元，建立了10条射频全检自动化线，包括射频全检，外观全检，耐压全检软硬件系统，测封一体化设备，全自动编带机，全自动裂片机，MES智能工序管控软硬件系统等，保证产品的高品质和充足的产能储备。

研通的多项专利产品被国家中小型创新基金，广东省产学研，深圳市科技型中小企业技术创新项目立项为国家、省、市的科技技术项目并合格通过项目验收，为我司的专利技术产业化进程，提供了强大的支持和推动。

同时，本公司也被深圳市知识产权局评为2008年度知识产权优势企业，中国首批国家级高新技术企业，并通过了ISO9001:2015质量管理体系，ISO14000环境管理体系认证以及GJB9001B-2009国军标质量管理体系认证。各类产品均具有中国及国际权威机构提供的可靠性及环保检验报告。

研通与爱立信，华为，中兴，诺基亚，大唐，三星，京信，凡谷，摩比，RFHIC, ACE等国内外著名通信企业建立了长期稳定的合作。同时，本公司的高精度无源IC系列化产品被欧洲的奥迪，大众等高档汽车车载手机信号增强器项目大批量采用。宽带耦合器/功分器产品广泛应用于北斗，GPS，GNSS高精度卫星定位，天线系统，主要客户包括北斗星通，司南，合众思壮，华信天线等。



Research & Development



100% Visual Inspection and Withstand Voltage Test



RF & Temperature Cycle Test



Production Line



100% RF/Visual Inspection



Reflow Welding Test In 10 Temperature Zone

Product Competitiveness

Yantel products are advanced on its innovative technologies, excellent RF characteristic with competitive cost. They are widely used in various wireless communication terminals and systems. Such as 4G,5G Repeater, Base Station, Small Cell, Pico, Bluetooth, WiFi, CATV, GPS, GNSS, Satellite, Beidou, Antenna, Power Amplifier, LNA, Automotive Electronics, RFID, Radar etc.

Introduction of the key patented products & technologies

- Wideband temperature compensation attenuator, breaks the iceberg of international monopoly (Microstrip circuit configuration DC-6, 12, 4, 18, 20, 16-36GHz)
以微带电路取代传统π型电路，推出超宽带温度补偿衰减器，打破美国制作商全球垄断的局面
(微带电路设计DC-6, 12, 4, 18, 20, 16-36GHz)
- Ultra small size (5×3mm), high power density, SMD 3db coupler and directional coupler with patent. Footprint and size is compatible, applied to 4G and 5G.
推出具有自主知识产权的5G超小型(5×3mm)，高功率密度3db耦合器及定向耦合器贴片式产品。管脚和尺寸国际兼容，独特专利技术设计为我国的5G直放站和基站通信项目保驾护航。
- Using the world's most advanced wafer technology of Silicon & GaAs, simulate and design the ultra wideband 2 way Power Divider, 4 way Power Divider, 3dB coupler, Directional Coupler, Quadrifilar, Variable Attenuator, Fixed Attenuator, Phase Shifters etc. used to 4G, 5G Telecommunication, Satellite Navigation and Vehicle mounted Cell Phone Signal Booster Active Module etc.
采用国际前沿的晶圆技术和砷化镓晶圆技术，设计超宽带二路功分器，四路功分器，3db耦合器，定向耦合器，四相位移向器，可变衰减器，固定衰减器，移向器等系列化齐全的无源半导体芯片产品，为全球4G, 5G通信项目，卫星导航，车载通信应用带来的无源芯片解决方案。
- World-first manual variable attenuator DC-6GHz with Non-abrupt change performance (no need to power off in attenuation adjusting)
世界首创无突变DC-6GHz手动可调衰减器
- Yantel has launched the world's first SMD coupler by the size of 0603 with PTFE process, and the SMD coupler by the size of 0805 has been produced on a large scale. Therefore, Yantel spares no effort to strive for the market share of 5G terminal application.
全球推出0603封装的PTFE工艺的贴片式耦合器，同时0805封装的贴片式耦合器已经进入批量生产状态，全力以赴争取5G终端应用的市场份额。
- World-first technology to realize real time lossless & accurate temperature compensation within the chip of GaAs PA.
世界先进技术，实现射频微波场效应管芯片内置的高频率，无损耗温度补偿电路



Certificates of Patent

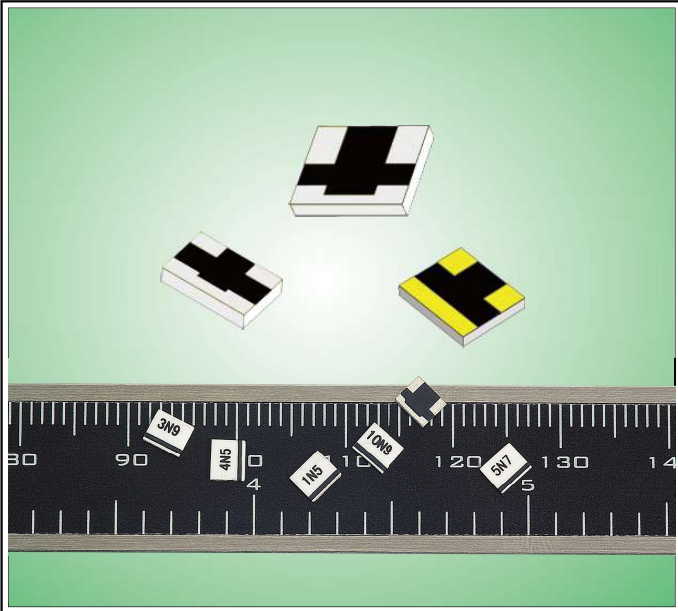
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Temperature Compensation Attenuator 温度补偿衰减器

US Utility patents #US 7,990,230 B2 etc.
EU,China,Taiwan,patented



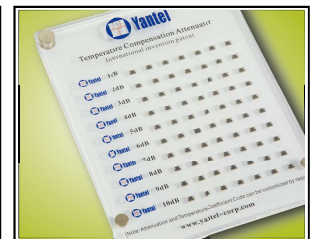
Features

- Frequency range:DC to 3 GHz, DC to 6 GHz, DC to 12.4 GHz, DC to 18 GHz,DC to 20 GHz, 16 to 36 GHz.
- Power rating: 100mW, 200mW, 2W.
- Impedance:50Ω or 75Ω.
- Operating temperature:-55°C to +150°C.
- Adopting 100% laser trimming,high attenuation accuracy.
- High reliability.Adopting advanced thick film & thin film technology through firing at the high temperature of 850°C.
- Zero distortion, and no phase changes and time delay caused by temperature variation.
- Temperature compensation and RF isolation,which are more suitable for multi-stage power amplifiers.
- No extra IP3 exists and suitable for linear power amplifier.
- Low cost and small size.It can be easily designed in Rf power amplifier to replace AGC loop circuit, which is easy for the regeneration of RF circuit.
- Tape and reel package is available, which is convenient for SMT.



Applications

- Power Amplifier
- Low Noise Amplifier
- Gain Blocks
- Optical Transceiver Module
- MMIC Amplifiers
- WLAN(2.4GHz or 5.8GHz)
- WiMAX
- UWB
- Mixers
- Power Dividers
- Satellite Communication
- Directional Couplers
- Broadcast(TV & Radio)
- Radar



Part No. Description

| TCA Series | Frequency | Attenuation | Temperature Coefficient Code | Metallization Options | Terminal Plating Options |
|---|-------------------------------|--------------------------|------------------------------|--------------------------------|--|
| TCA, STCA, MTCA WTCA, KTCA BTCA, PTCA | 03, 06 12, 18, 20 or 36 | 01 to 10 1dB to 10 dB | (N3 to N10) or (P3 to P8) | no code, W1, W3, WB1, WB2 or G | (no code)=Lead free or (S)=Lead(Pb) |

Example: P/N STCA0603N9W3 is STCA series, frequency range DC to 6GHz, 3dB attenuation @25°C, temperature coefficient of attenuation -0.009 dB/dB/°C, triple wrap lead free terminal.

Material Specification

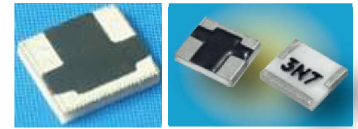
- Substrate: Alumina (Al₂O₃)
- Resistive material: Thick film
- Terminal material:
Thick film, Nickel barrier with solder plate or gold.
- Protective Coating: Thick film (ethyl acetate)

Metallization & Plating Options

- Planar(no code): planar terminal.
- Single wrap(W1): metallization wrap ground terminal.
- Triple wrap(W3): metallization wrap input, output and ground terminal.
- Wire bond(WB1): metallization wrap ground terminal, input and output terminal have gold metallization for wire bonding.
- Lead(Pb) (S): Lead terminals improve solderability (available on planar, W3 & W1 options).
- Lead free(no code): Lead free terminals. (planar, W1 and W3 are available)
- Planar gold(G): planar terminal with gold metallization for wire bonding.

TCA Series Specifications

- Frequency range: DC to 6GHz
- Power rating: 2W
- Impedance: 50Ω
- Operating temperature: -55℃ to 150℃
- Size: 3.1×3.7×0.53(mm), type I
- Thick film technology
- Planar
- Triple wrap, W3

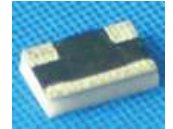


| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/℃) ^① | Max. VS WR:(1)@1GHz | Attenuation Accuracy(dB) |
|-----------|------------------|------------------------------|--|---------------------|--------------------------|
| TCA0601N* | 1 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| TCA0602N* | 2 | N3~N10 | -0.003~-0.010 | 1.20 | ±0.5 |
| TCA0603N* | 3 | N3~N10 | -0.003~-0.010 | 1.20 | ±0.5 |
| TCA0604N* | 4 | N3~N10 | -0.003~-0.010 | 1.20 | ±0.5 |
| TCA0605N* | 5 | N3~N10 | -0.003~-0.010 | 1.20 | ±0.5 |
| TCA0606N* | 6 | N3~N10 | -0.003~-0.010 | 1.20 | ±0.5 |
| TCA0607N* | 7 | N3~N10 | -0.003~-0.010 | 1.20 | ±0.5 |
| TCA0608N* | 8 | N3~N10 | -0.003~-0.010 | 1.20 | ±0.5 |
| TCA0609N* | 9 | N3~N10 | -0.003~-0.010 | 1.20 | ±0.5 |
| TCA0610N* | 10 | N3~N10 | -0.003~-0.010 | 1.20 | ±0.5 |

① Note: For example 4N9, when temperature changes by 1℃, the attenuation variation equals 4dB x 0.009(temperature coefficient code) x 1℃ = 0.036dB. When temperature changes by 100℃, the attenuation variation equals 4dB x 0.009 x 100℃ = 3.6dB.

STCA Series Specifications

- Frequency range: DC to 6GHz
- Power rating: 100mW
- Impedance: 50Ω
- Operating temperature: -55℃ to 150℃
- Size: 1.25×2.0×0.45(mm), type III
- Thick film technology



| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/℃) | Max. VS WR:(1)@1GHz | Attenuation Accuracy(dB) |
|------------|------------------|------------------------------|---|---------------------|--------------------------|
| STCA0601N* | 1 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| STCA0602N* | 2 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| STCA0603N* | 3 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| STCA0604N* | 4 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| STCA0605N* | 5 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| STCA0606N* | 6 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| STCA0607N* | 7 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| STCA0608N* | 8 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| STCA0609N* | 9 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| STCA0610N* | 10 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |

MTCA Series Specifications

- Frequency range:
 - 1) Planar series DC-18GHz(N3~N5); DC-12.4GHz(N6~N9)
 - 2) W series DC-12.4GHz(All W1/W3/WB1 Series)
 - Single wrap(W1): metallization wrap ground terminal.
 - Triple wrap(W3): metallization wrap input, output and ground terminal.
 - Wire bond(WB1): metallization wrap ground terminal, input and output terminal have gold metallization for wire bonding.
- Operating temperature: -55℃ to 150℃
- Impedance: 50Ω
- Size1: 1.52×1.91×0.28(mm), 1.52×1.91×0.4(mm), type II
- Size2: 1.52×1.91×0.23(mm), 1.52×1.91×0.4(mm), type II



Planar Triple wrap, W3 Gold, WB1 Package

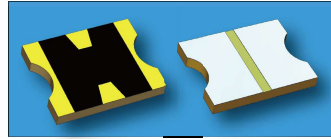
- Power rating: 200mW
- Thick film technology

| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/℃) | Max. VS WR:(1)@1GHz | Attenuation Accuracy(dB) |
|------------|------------------|------------------------------|---|---------------------|--------------------------|
| MTCA1801N* | 1 | N3~N7 | -0.003~-0.007 | 1.20 | ±0.5 |
| MTCA1802N* | 2 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| MTCA1803N* | 3 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| MTCA1804N* | 4 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| MTCA1805N* | 5 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| MTCA1806N* | 6 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| MTCA1807N* | 7 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| MTCA1808N* | 8 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| MTCA1809N* | 9 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| MTCA1810N* | 10 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |

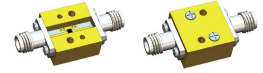
WTCA-WB2 Series

Specifications

- Wide frequency range: DC to 20GHz
- Operating temperature: -55°C to 150°C
- Size1: 1.52×1.81×0.38(mm)
- Size2: 1.52×1.81×0.28(mm)
- Power rating: 200mW
- Impedance: 50Ω
- Thick film technology



Gold, WB2 Package



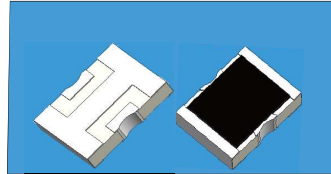
Test fixture

| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/°C) | Max. VS WR(:1)@1GHz | Attenuation Accuracy(dB) |
|---------------|------------------|------------------------------|--|---------------------|--------------------------|
| WTCA2002N*WB2 | 2 | N3~N7 | -0.003~-0.007 | 1.20 | ±0.5 |
| WTCA2003N*WB2 | 3 | N3~N9 | -0.003~-0.007 | 1.20 | ±0.5 |
| WTCA2004N*WB2 | 4 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| WTCA2005N*WB2 | 5 | N3~N10 | -0.003~-0.009 | 1.20 | ±0.5 |
| WTCA2006N*WB2 | 6 | N3~N10 | -0.003~-0.010 | 1.20 | ±0.5 |
| WTCA2007N*WB2 | 7 | N3~N10 | -0.003~-0.010 | 1.20 | ±0.5 |

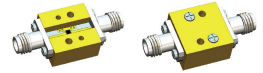
WTCA-SMT Series

Specifications

- Wide frequency range: DC to 20GHz
- Operating temperature: -55°C to 150°C
- Size: 1.52×1.91×0.38(mm)
- Power rating: 200mW
- Impedance: 50Ω
- Thick film technology



SMT Package



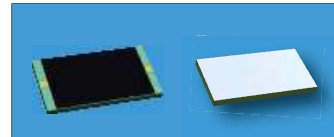
Test fixture

| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/°C) | Max. VS WR(:1)@1GHz | Attenuation Accuracy(dB) |
|---------------|------------------|------------------------------|--|--|--------------------------|
| WTCA2002N*SMT | 2 | N3~N7 | -0.003~-0.007 | 1.30 Max DC-10GHz @25°C 1.45 Max 10-20GHz @25°C | ±0.5 |
| WTCA2003N*SMT | 3 | N3~N7 | -0.003~-0.007 | | ±0.5 |
| WTCA2004N*SMT | 4 | N3~N7 | -0.003~-0.007 | | ±0.5 |
| WTCA2005N*SMT | 5 | N3~N7 | -0.003~-0.007 | | ±0.5 |
| WTCA2006N*SMT | 6 | N3~N7 | -0.003~-0.007 | | ±0.5 |
| WTCA2007N*SMT | 7 | N3~N7 | -0.003~-0.007 | | ±0.5 |
| WTCA2008N*SMT | 8 | N3~N7 | -0.003~-0.007 | | ±0.5 |
| WTCA2009N*SMT | 9 | N3~N7 | -0.003~-0.007 | | ±0.5 |
| WTCA2010N*SMT | 10 | N3~N7 | -0.003~-0.007 | | ±0.5 |

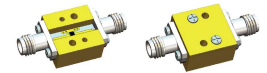
KTCA Series

Specifications

- Wide frequency range: 16 to 36GHz
- Operating temperature: -55°C to 150°C
- Size2: 3.05×1.65×0.28(mm)
- for wire-bonding
- Power rating: 200mW
- Impedance: 50Ω
- Thin film technology



Gold, Package



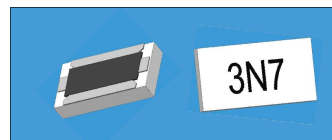
Test fixture

| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/°C) | Max. VS WR(:1)@1GHz | Attenuation Accuracy(dB) |
|------------|------------------|------------------------------|--|---------------------|--------------------------|
| KTCA3602N* | 2 | N3~N13 | -0.003~-0.013 | 1.35 | ±0.5 |
| KTCA3603N* | 3 | N3~N13 | -0.003~-0.013 | 1.35 | ±0.5 |
| KTCA3604N* | 4 | N3~N13 | -0.003~-0.013 | 1.35 | ±0.5 |
| KTCA3605N* | 5 | N3~N13 | -0.003~-0.013 | 1.35 | ±0.5 |
| KTCA3606N* | 6 | N3~N13 | -0.003~-0.013 | 1.35 | ±0.5 |

KTCA-SMT Series

Specifications

- Wide frequency range: 16 to 36GHz
- Operating temperature: -55°C to 150°C
- Size1: 3.05×1.65×0.56(mm)
- For lead free reflow
- Power rating: 200mW
- Impedance: 50Ω
- Thin film technology



SMT Package



Test fixture

| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/°C) | Max. VS WR(:1)@1GHz | Attenuation Accuracy(dB) |
|---------------|------------------|------------------------------|--|---------------------|--------------------------|
| KTCA3602N*SMT | 2 | N3~N13 | -0.003~-0.013 | 1.35 | ±0.5 |
| KTCA3603N*SMT | 3 | N3~N13 | -0.003~-0.013 | 1.35 | ±0.5 |
| KTCA3604N*SMT | 4 | N3~N13 | -0.003~-0.013 | 1.35 | ±0.5 |
| KTCA3605N*SMT | 5 | N3~N13 | -0.003~-0.013 | 1.35 | ±0.5 |
| KTCA3606N*SMT | 6 | N3~N13 | -0.003~-0.013 | 1.35 | ±0.5 |

New 超小型MTCAU系列 (金电极键合封装)

特点:

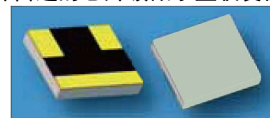
- DC-20GHz 超小型超宽带
- 尺寸0.8*0.85*0.30mm, 金电极, 尺寸&厚度与有源温度补偿衰减芯片一致, 方便使用。
- 金丝键合, 输入输出端焊盘尺寸0.2×0.3mm
- N3~N10多种斜率可选
- 可靠性高, 无需外加-5V电源
- 改善阻抗匹配, 降低相邻两级功放之间的回波损耗, 起到隔离保护作用, 有效防止自激。
- 相对于有源温度补偿衰减器, 无源温度补偿衰减器无失真, 无相移和时移。
- 系统应用简单灵活, 可靠性高, 可减少系统再设计的隐性成本。
- 功率升高时, 相对有源温度补偿衰减芯片, 无源温补有更好更稳定的温度&频率响应特性, 可靠性更高。
- 小型化设计, 支持小型多通道有源相控阵雷达的芯片级微小型收发模组应用

Specifications

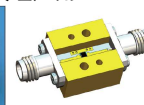
- Wide frequency range: DC to 20GHz
- Power rating: 200mW
- Operating temperature: -55°C to 150°C
- Impedance: 50Ω
- Size: 0.8×0.85×0.30(mm)
- Thick film technology



Gold, Planar Package



Gold, WB1 Package



Test fixture

| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/°C) | Max. VS WR:(1)@1GHz | Attenuation Accuracy(dB) |
|-------------|------------------|------------------------------|--|---------------------|--------------------------|
| MTCAU2001N* | 1 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2002N* | 2 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2003N* | 3 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2004N* | 4 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2005N* | 5 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2006N* | 6 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2007N* | 7 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2008N* | 8 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2009N* | 9 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2010N* | 10 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |

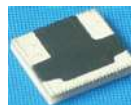
New 超小型MTCAU-SMT系列 (SMD封装)

特点:

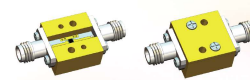
- DC-20GHz 超小型超宽带
- 尺寸0.8*0.85*0.3mm, 锡电极, 尺寸&厚度与有源温度补偿衰减芯片一致, 方便使用。
- 回流焊, 输入输出端焊盘尺寸0.2×0.3mm
- N3~N10多种斜率可选
- 可靠性高, 无需外加-5V电源
- 改善阻抗匹配, 降低相邻两级功放之间的回波损耗, 起到隔离保护作用, 有效防止自激。
- 相对于有源温度补偿衰减器, 无源温度补偿衰减器无失真, 无相移和时移。
- 系统应用简单灵活, 可靠性高, 可减少系统再设计的隐性成本。
- 功率升高时, 相对有源温度补偿衰减芯片, 无源温补有更好更稳定的温度&频率响应特性, 可靠性更高。
- 小型化设计, 支持小型多通道有源相控阵雷达的芯片级微小型收发模组应用

Specifications

- Wide frequency range: DC to 20GHz
- Power rating: 200mW
- Operating temperature: -55°C to 150°C
- Impedance: 50Ω
- Size: 0.8×0.85×0.30(mm)
- Thick film technology



SMT Package



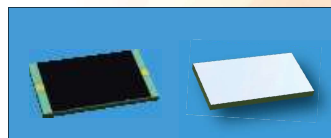
Test fixture

| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/°C) | Max. VS WR:(1)@1GHz | Attenuation Accuracy(dB) |
|----------------|------------------|------------------------------|--|---------------------|--------------------------|
| MTCAU2001N*SMT | 1 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2002N*SMT | 2 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2003N*SMT | 3 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2004N*SMT | 4 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2005N*SMT | 5 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2006N*SMT | 6 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2007N*SMT | 7 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2008N*SMT | 8 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2009N*SMT | 9 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |
| MTCAU2010N*SMT | 10 | N3~N10 | -0.003~-0.01 | 1.20 | ±0.5 |

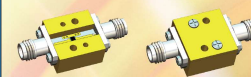
New QTCA Series

Specifications

- Power rating: 200mW
- Wide frequency range: 36 to 50GHz
- Operating temperature: -55°C to 150°C
- For wire-bonding
- Size: 3.05×1.65×0.25(mm)
- Impedance: 50Ω
- Thin film technology



Gold, Package



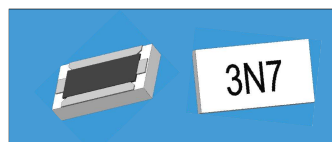
Test fixture

| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/°C) | Max. VS WR:(1)@1GHz | Attenuation Accuracy(dB) |
|-----------|------------------|------------------------------|--|---------------------|--------------------------|
| QTCA5002* | 2 | N3,N5,N7 | -0.003, -0.005, -0.007 | 1.20 | ±0.5 |
| QTCA5003* | 3 | N3,N5,N7 | -0.003, -0.005, -0.007 | 1.20 | ±0.5 |
| QTCA5004* | 4 | N3,N5,N7 | -0.003, -0.005, -0.007 | 1.20 | ±0.5 |
| QTCA5005* | 5 | N3,N5,N7 | -0.003, -0.005, -0.007 | 1.20 | ±0.5 |
| QTCA5006* | 6 | N3,N5,N7 | -0.003, -0.005, -0.007 | 1.20 | ±0.5 |

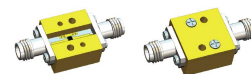
New QTCA SMT Series

Specifications

- Power rating: 200mW
- Wide frequency range: 36 to 50GHz
- Operating temperature: -55°C to 150°C
- For lead free reflow
- Size: 3.05×1.65×0.51(mm)
- Impedance: 50Ω
- Thin film technology



SMT Package

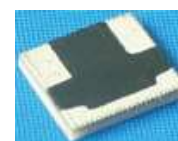


Test fixture

| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/°C) | Max. VSWR(:1)@1GHz | Attenuation Accuracy(dB) |
|--------------|------------------|------------------------------|--|--------------------|--------------------------|
| QTCA5002*SMT | 2 | N3,N5,N7 | -0.003, -0.005, -0.007 | 1.20 | ±0.5 |
| QTCA5003*SMT | 3 | N3,N5,N7 | -0.003, -0.005, -0.007 | 1.20 | ±0.5 |
| QTCA5004*SMT | 4 | N3,N5,N7 | -0.003, -0.005, -0.007 | 1.20 | ±0.5 |
| QTCA5005*SMT | 5 | N3,N5,N7 | -0.003, -0.005, -0.007 | 1.20 | ±0.5 |
| QTCA5006*SMT | 6 | N3,N5,N7 | -0.003, -0.005, -0.007 | 1.20 | ±0.5 |

ETCA Series Specifications

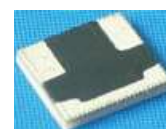
- Wide frequency range: DC to 3GHz
- Operating temperature: -55°C to 150°C
- Power rating: 2W
- Size: 4.06×3.68×0.51(mm), type I
- Impedance: 50Ω or 75Ω
- Thick film technology



| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/°C) | Max. VSWR(:1)@1GHz | Attenuation Accuracy(dB) |
|------------|------------------|------------------------------|--|--------------------|--------------------------|
| ETCA0303N* | 3 | N10~N16 | -0.01~-0.016 | 1.30 | ±0.5 |
| ETCA0304N* | 4 | N10~N16 | -0.01~-0.016 | 1.30 | ±0.5 |
| ETCA0305N* | 5 | N10~N16 | -0.01~-0.016 | 1.30 | ±0.5 |
| ETCA0306N* | 6 | N10~N16 | -0.01~-0.016 | 1.30 | ±0.5 |

BTCA Series Specifications

- Wide frequency range: DC to 6GHz
- Operating temperature: -55°C to 150°C
- Power rating: 2W
- Size: 3.1×3.70×0.53(mm), type I
- Impedance: 75Ω
- Thick film technology

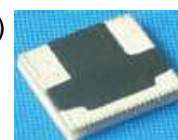


| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/°C) | Max. VSWR(:1)@1GHz | Attenuation Accuracy(dB) |
|------------|------------------|------------------------------|--|--------------------|--------------------------|
| BTCA0601N* | 1 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| BTCA0602N* | 2 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| BTCA0603N* | 3 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| BTCA0604N* | 4 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| BTCA0605N* | 5 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |
| BTCA0606N* | 6 | N3~N9 | -0.003~-0.009 | 1.20 | ±0.5 |

PTCA Series (Thermal compensation characteristics with positive coefficients 正温补偿系数)

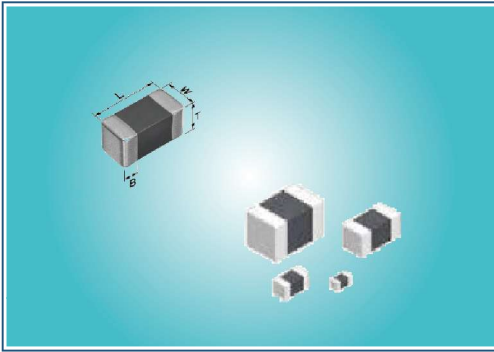
Specifications

- Wide frequency range: DC to 6GHz
- Operating temperature: -55°C to 150°C
- Power rating: 2W
- Size: 3.1×3.70×0.53(mm), type I
- Impedance: 50Ω or 75Ω
- Thick film technology



| Part No. | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation(dB/dB/°C) | Max. VSWR(:1)@1GHz | Attenuation Accuracy(dB) |
|------------|------------------|------------------------------|--|--------------------|--------------------------|
| PTCA0601P* | 1 | P3~P9 | +0.003~+0.009 | 1.20 | ±0.5 |
| PTCA0602P* | 2 | P3~P9 | +0.003~+0.009 | 1.20 | ±0.5 |
| PTCA0603P* | 3 | P3~P9 | +0.003~+0.009 | 1.20 | ±0.5 |
| PTCA0604P* | 4 | P3~P9 | +0.003~+0.009 | 1.20 | ±0.5 |
| PTCA0605P* | 5 | P3~P9 | +0.003~+0.009 | 1.20 | ±0.5 |
| PTCA0606P* | 6 | P3~P9 | +0.003~+0.009 | 1.20 | ±0.5 |

New NTC/PTC热敏电阻器



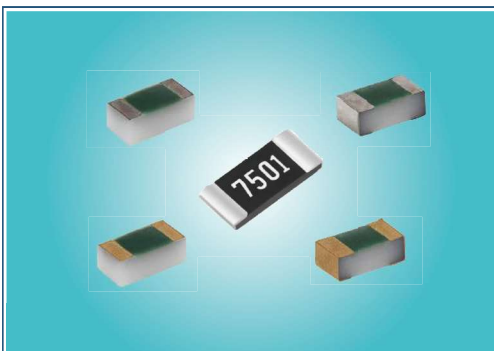
产品特点:

- 两类产品阻值范围宽
- 性能稳定
- 可靠性高、
- 使用温度范围
- 规格品种齐全

产品参数:

- 外形尺寸: $\phi(3\sim35)$ 、0404、0603、0805、1206
- 阻值范围: 0.7~100 Ω 、101~2M Ω
- 质量等级: GJB、企军标、普军

射频电阻器



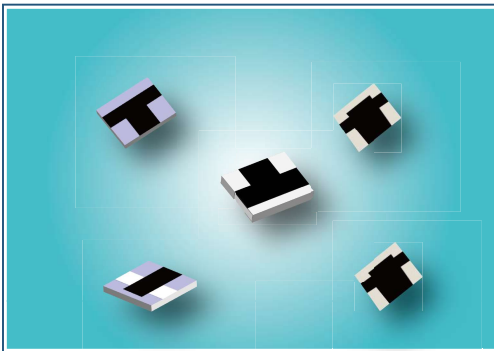
Features

- High purity alumina substrate
- Small internal reactance(<10m Ω)
- Resistor tolerance to $\pm 0.1\%$
- Low TCR (down to $\pm 25\text{ppm}/^\circ\text{C}$)
- Low voltage coefficient <0.1 ppm/V
- Thin film microwave resistors
- Operating frequency to 60 GHz
- Small standard case size (0402)
- High power (1 W)
- High thermal conductivity aluminum nitride substrate
- Edge sense trimmed block resistors
- Epoxy bondable, wire bondable, and solderable termination styles
- Modelithics® library available
- Edge trimmed block resistors
- Ohmic range (50 Ω ,75 Ω and 100 Ω)

Applications

- Low noise amplifiers
- Attenuation
- Line Termination
- 5G base stations and small cells
- RF and microwave test systems
- Connected car
- Internet of things (IoT)

固定衰减片(0603封装 DC-8GHz)



特点:

- 频率范围: DC ~8GHz
- 衰减量: 0dB-10dB
- 输入功率: 100mW
- 衰减量精度高
- 低驻波比
- 工作温度: -55 $^\circ\text{C}$ ~+150 $^\circ\text{C}$
- 尺寸(mm):1.6 \times 0.8 \times 0.38

应用:

- 通信
- 点对点基站
- 数字传输
- 雷达
- 广播电视
- 光模块 (光信号转RF信号)

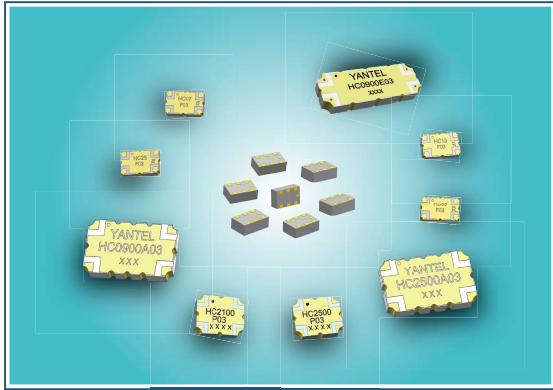
DC to 8GHz, 100mW, 50 Ω , thick film, size(mm): 1.6 \times 0.8 \times 0.38,for lead free reflow

| 型号 | 衰减量 (dB) | 衰减精度(典型值)(dB) | | | VSWR:1(MAX.) | | |
|---------|----------|---------------|--------|--------|--------------|--------|--------|
| | | DC~4GHz | 4~6GHz | 6~8GHz | DC~4GHz | 4~6GHz | 6~8GHz |
| FAC0800 | 0 | 0.25 | 0.3 | 0.4 | 1.15 | 1.2 | 1.25 |
| FAC0801 | 1 | 0.25 | 0.3 | 0.4 | 1.15 | 1.2 | 1.25 |
| FAC0802 | 2 | 0.25 | 0.3 | 0.4 | 1.15 | 1.2 | 1.25 |
| FAC0803 | 3 | 0.25 | 0.3 | 0.4 | 1.15 | 1.2 | 1.25 |
| FAC0804 | 4 | 0.25 | 0.3 | 0.4 | 1.15 | 1.2 | 1.25 |
| FAC0805 | 5 | 0.25 | 0.3 | 0.4 | 1.15 | 1.2 | 1.25 |
| FAC0806 | 6 | 0.25 | 0.3 | 0.4 | 1.15 | 1.2 | 1.25 |
| FAC0807 | 7 | 0.25 | 0.3 | 0.4 | 1.15 | 1.2 | 1.25 |
| FAC0808 | 8 | 0.25 | 0.3 | 0.4 | 1.15 | 1.2 | 1.25 |
| FAC0809 | 9 | 0.25 | 0.3 | 0.4 | 1.15 | 1.2 | 1.25 |
| FAC0810 | 10 | 0.25 | 0.3 | 0.4 | 1.15 | 1.2 | 1.25 |



3dB 90° Hybrid Coupler 3dB 90° 电桥

SMD Package



Features

- Very Low Loss
- Tight Amplitude Balance
- High Isolation
- Low VSWR
- Good Repeatability
- CTE compatible with FR4, G-10, RF-35, RO4350B and polyimide
- Immersion gold, prevent surface oxidation & scratch
- RoHS Compliant
- Tape & Reel Package available

Applications

- Power Amplifiers
- LNAs
- Variable Attenuators
- Variable Phase Shifter

Part No. Description

| ** | **** | * | ** |
|----------------|-----------------------|-----------------|----------------|
| Hybrid Coupler | Center Frequency(MHz) | Size(mm) | Coupling Value |
| | 0450=410-480 | C=34.0X17.0 | |
| | 0900=800 to 1000 | B=25.4 x 12.7 | |
| | 1400=1200 to 1600 | L=16.51 x 12.19 | |
| HC | 1900=1700 to 2000 | A=14.22 x 8.89 | 03=3 dB |
| | 2100=2000 to 2300 | E=14.22 x 5.08 | |
| | 2500=2300 to 2700 | M=10.16 x 5.08 | |
| | 3500=3300 to 3800 | P=6.35 x 5.08 | |
| | | S=6.0x3.0 | |
| | | F=5.08x3.18 | |
| | | T=2x1.25 | |

Specifications

Standard Series for SMT

| | Part No. | Freq.Range (GHz) fL-fU | Power (W) | Size LxW (mm) | Return Loss (dB) | Insertion Loss (dB) | Amplitude Balance (dB) | Phase Balance (degrees) | Isolation (dB) |
|----------|----------|---------------------------|-----------|---------------|------------------|---------------------|------------------------|-------------------------|----------------|
| New | HC09T03 | 0.7 ~ 1 | 4 | 2.0x1.25 | 18 | 0.3 | ±0.3 | 90±4.0 | 20 |
| New | HC12T03 | 0.96 ~ 1.53 | 4 | 2.0x1.25 | 18 | 0.6 | ±0.5 | 90±6.0 | 18 |
| AEC-Q200 | HC13T03 | 1 ~ 1.5 | 4 | 2.0x1.25 | 20 | 0.55 | ±0.5 | 90±6.0 | 20 |
| AEC-Q200 | HC14T03 | 1.15 ~ 1.65 | 4 | 2.0x1.25 | 18 | 0.55 | ±0.5 | 90±5.0 | 20 |
| AEC-Q200 | HC16T03 | 1.5 ~ 1.7 | 4 | 2.0x1.25 | 20 | 0.3 | ±0.5 | 90±4.0 | 21 |
| New | HC19T03 | 1.7 ~ 2.0 | 4 | 2.0x1.25 | 18 | 0.3 | ±0.3 | 90±4.0 | 20 |
| New | HC20T03 | 1.7 ~ 2.3 | 4 | 2.0x1.25 | 18 | 0.4 | ±0.4 | 90±5.0 | 20 |
| New | HC21T03 | 2.0 ~ 2.3 | 4 | 2.0x1.25 | 18 | 0.3 | ±0.3 | 90±4.0 | 20 |
| New | HC25T03 | 2.3 ~ 2.7 | 4 | 2.0x1.25 | 18 | 0.3 | ±0.3 | 90±3.0 | 20 |
| New | HC35T03 | 3.2 ~ 4.2 | 4 | 2.0x1.25 | 18 | 0.3 | ±0.3 | 90±5.0 | 20 |
| New | HC55T03 | 4.5 ~ 6.0 | 4 | 2.0x1.25 | 18 | 0.35 | ±0.5 | 90±5.0 | 20 |
| New | HC70T03 | 6.0 ~ 7.0 | 4 | 2.0x1.25 | 18 | 0.35 | ±1.0 | 90±7.0 | 15.5 |
| AEC-Q200 | HC14K03 | 1.15 ~ 1.65 | 4 | 2.0x2.5 | 18 | 0.55 | ±0.5 | 90±5.0 | 20 |
| New | HC16H03 | 1.1 ~ 1.925 | 15 | 3.1x1.6 | 21 | 0.65 | ±0.40 | 90±8.5 | 23 |
| New | HC07F03 | 0.6 ~ 1 | 25 | 5.08x3.18 | 21 | 0.2 | ±0.70 | 90±2.0 | 23 |
| New | HC09F03 | 0.8 ~ 1 | 25 | 5.08x3.18 | 21 | 0.2 | ±0.30 | 90±2.0 | 23 |

New
AEC-Q200
New
New
New
New

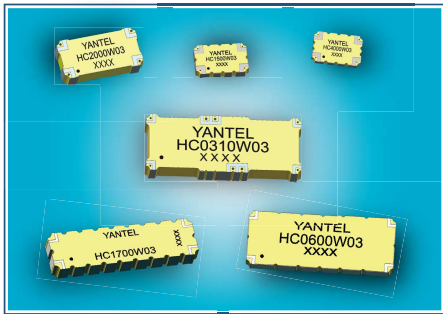
AEC-Q200

| Part No. | Freq.Range (GHz) fL-fU | Power (W) | Size LxW (mm) | Return Loss (dB) | Insertion Loss (dB) | Amplitude Balance (dB) | Phase Balance (degrees) | Isolation (dB) |
|-------------|---------------------------|-----------|---------------|------------------|---------------------|------------------------|-------------------------|----------------|
| HC12F03 | 0.96 ~ 1.53 | 25 | 5.08×3.18 | 20 | 0.5 | -0.4 ~ 0.8 | 90±4.0 | 20 |
| HC14F03 | 1.2 ~ 1.7 | 25 | 5.08×3.18 | 21 | 0.3 | ±0.35 | 90±4.0 | 22 |
| HC19F03 | 1.7 ~ 2.3 | 25 | 5.08×3.18 | 18 | 0.3 | ±0.25 | 90±3.0 | 19.5 |
| HC25F03 | 2.1 ~ 2.7 | 20 | 5.08×3.18 | 20 | 0.3 | ±0.45 | 90±3.0 | 23 |
| HC35F03 | 3.3 ~ 3.9 | 25 | 5.08×3.18 | 20 | 0.3 | ±0.35 | 90±4.0 | 20 |
| HC55F03 | 4.9 ~ 6.3 | 25 | 5.08×3.18 | 13.1 | 0.49 | ±0.65 | 90±6.0 | 15 |
| HC0510P03 | 0.48 ~ 0.55 | 60 | 6.35×5.08 | 20 | 0.2 | ±0.35 | 90±3.0 | 20 |
| HC0700P03H | 0.758 ~ 0.821 | 130 | 6.35×5.08 | 22 | 0.25 | ±0.30 | 90±4.0 | 23 |
| HC0900P03 | 0.8 ~ 1.0 | 28 | 6.35×5.08 | 19.7 | 0.4 | ±0.25 | 90±4.0 | 20 |
| HC0900P03S | 0.8 ~ 1.0 | 60 | 6.35×5.08 | 24 | 0.2 | ±0.35 | 90±3.0 | 30 |
| HC0900P03H | 0.7 ~ 1.0 | 100 | 6.35×5.08 | 19 | 0.3 | ±0.4 | 90±5.0 | 20 |
| HC1400P03 | 1.2 ~ 1.7 | 30 | 6.35×5.08 | 20.8 | 0.3 | ±0.35 | 90±4.0 | 20 |
| HC1400P03-L | 1.1 ~ 1.6 | 30 | 6.35×5.08 | 20.8 | 0.3 | ±0.50 | 90±2.0 | 20 |
| HC1400P03S | 1.15 ~ 1.63 | 30 | 6.35×5.08 | 20.8 | 0.3 | ±0.35 | 90±3.0 | 22 |
| HC1600P03 | 1.558 ~ 1.616 | 30 | 6.35×5.08 | 23 | 0.19 | ±0.35 | 90±3.0 | 25 |
| HC1900P03 | 1.7 ~ 2.0 | 60 | 6.35×5.08 | 20.8 | 0.2 | ±0.30 | 90±3.5 | 20 |
| HC1900P03H2 | 1.7 ~ 2.3 | 176 | 6.35×5.08 | 19 | 0.25 | ±0.40 | 90±2.5 | 19 |
| HC2100P03 | 1.8~ 2.3 | 60 | 6.35×5.08 | 20.8 | 0.3 | ±0.25 | 90±4.0 | 21 |
| HC2100P03H | 1.7~ 2.3 | 90 | 6.35×5.08 | 20 | 0.25 | ±0.15 | 90±2.0 | 27 |
| HC2500P03 | 2.3 ~ 2.7 | 60 | 6.35×5.08 | 20.8 | 0.3 | ±0.25 | 90±3.0 | 20 |
| HC2500P03H | 2.3 ~ 2.7 | 60 | 6.35×5.08 | 20.8 | 0.3 | ±0.25 | 90±3.0 | 20 |
| HC3500P03 | 3.3 ~ 3.8 | 25 | 6.35×5.08 | 18.2 | 0.3 | ±0.30 | 90±4.0 | 20 |
| HC0350A03 | 0.30 ~ 0.40 | 150 | 14.22×8.89 | 19.1 | 0.3 | ±0.30 | 90±4.0 | 18 |
| HC0450A03 | 0.35 ~ 0.52 | 125 | 14.22×8.89 | 23.1 | 0.3 | ±0.45 | 90±3.0 | 22 |
| HC0480A03 | 0.435 ~ 0.524 | 125 | 14.22×8.89 | 20.1 | 0.25 | ±0.20 | 90±3.0 | 20 |
| HC0650A03 | 0.47 ~ 0.86 | 200 | 14.22×8.89 | 17.2 | 0.3 | ±0.40 | 90±2.5 | 17 |
| HC0700A03 | 0.7 ~ 0.8 | 225 | 14.22×8.89 | 20 | 0.25 | ±0.25 | 90±2.0 | 21 |
| HC0900A03 | 0.8 ~ 1.0 | 175 | 14.22×8.89 | 20 | 0.2 | ±0.25 | 90±2.0 | 22 |
| HC1400A03 | 1.2 ~ 1.7 | 150 | 14.22×8.89 | 20.8 | 0.2 | ±0.25 | 90±2.0 | 22 |
| HC1500A03 | 1.0 ~ 2.0 | 60 | 14.22×8.89 | 17.69 | 0.45 | ±0.55 | 90±3.0 | 20 |
| HC1700A03 | 0.69~ 2.7 | 50 | 14.22×8.89 | 13-29 | 0.62 | ±0.8 | 90±6.0 | 16 |
| HC1900A03 | 1.7 ~ 2.0 | 150 | 14.22×8.89 | 20.8 | 0.15 | ±0.25 | 90±2.0 | 23 |
| HC2035A03 | 1.575 ~ 2.575 | 80 | 14.22×8.89 | 21.7 | 0.25 | ±0.35 | 90±3.0 | 23 |
| HC2100A03 | 2.0 ~ 2.3 | 105 | 14.22×8.89 | 20 | 0.15 | ±0.25 | 90±2.0 | 24 |
| HC2500A03 | 2.3 ~ 2.7 | 200 | 14.22×8.89 | 20.8 | 0.17 | ±0.25 | 90±2.0 | 23 |
| HC0570C03 | 0.47 ~ 0.65 | 500 | 34×17 | 20.8 | 0.25 | ±0.35 | 90±2.0 | 22 |
| HC0650C03 | 0.47 ~ 0.86 | 500 | 34×17 | 17.7 | 0.25 | ±0.4 | 90±2.0 | 20 |
| HC0750C03 | 0.65 ~ 0.86 | 500 | 34×17 | 20.8 | 0.25 | ±0.40 | 90±2.0 | 25 |
| HC0150B03 | 0.13 ~ 0.174 | 125 | 25.4×12.7 | 24.3 | 0.4 | ±0.25 | 90±3.5 | 22 |
| HC0230B03 | 0.22 ~ 0.24 | 90 | 25.4×12.7 | 19.1 | 0.35 | ±0.30 | 90±2.0 | 20 |
| HC0650B03 | 0.47 ~ 0.86 | 300 | 25.4×12.7 | 19.1 | 0.25 | ±0.42 | 90±2.0 | 20 |
| HC0900B03 | 0.8 ~ 1.0 | 300 | 25.4×12.7 | 20.8 | 0.15 | ±0.25 | 90±2.0 | 22 |
| HC1900B03 | 1.7 ~ 2.0 | 300 | 25.4×12.7 | 19.1 | 0.2 | ±0.25 | 90±2.0 | 20 |
| HC2100B03 | 2.0 ~ 2.3 | 300 | 25.4×12.7 | 19.1 | 0.12 | ±0.30 | 90±2.5 | 24 |
| HC0450L03 | 0.38 ~ 0.52 | 200 | 16.51×12.19 | 20.8 | 0.3 | ±0.30 | 90±3.0 | 20 |
| HC0465L03 | 0.40 ~ 0.53 | 200 | 16.51×12.19 | 20.8 | 0.25 | ±0.35 | 90±3.0 | 20 |
| HC0900L03 | 0.8 ~ 1.0 | 225 | 16.51×12.19 | 20.8 | 0.25 | ±0.25 | 90±2.0 | 22 |
| HC2100L03 | 1.8 ~ 2.5 | 300 | 16.51×12.19 | 20.8 | 0.2 | ±0.25 | 90±3.0 | 20 |
| HC0900E03 | 0.8 ~ 1.0 | 70 | 14.22×5.08 | 20.8 | 0.25 | ±0.30 | 90±3.0 | 20 |
| HC1500E03H | 1.4~ 1.6 | 250 | 14.22×5.08 | 21 | 0.20 | ±0.25 | 90±2.0 | 21 |
| HC1900E03 | 1.7 ~ 2.0 | 120 | 14.22×5.08 | 24.9 | 0.15 | ±0.25 | 90±2.0 | 24 |
| HC2100E03 | 2.0 ~ 2.3 | 100 | 14.22×5.08 | 26.4 | 0.15 | ±0.25 | 90±2.0 | 26 |
| HC2200E03 | 1.7~ 2.7 | 160 | 14.22×5.08 | 23.1 | 0.15 | ±0.25 | 90±4.0 | 23 |
| HC2200E03H | 1.8~ 2.7 | 250 | 14.22×5.08 | 20.8 | 0.25 | ±0.30 | 90±4.0 | 22 |
| HC2500E03 | 2.3 ~ 2.7 | 100 | 14.22×5.08 | 24.9 | 0.2 | ±0.15 | 90±2.0 | 26 |
| HC2100S03 | 1.7 ~ 2.3 | 20 | 6.00×3.00 | 21 | 0.3 | ±0.30 | 90±2.0 | 21 |
| HC2500S03 | 2.3 ~ 2.7 | 20 | 6.00×3.00 | 20.8 | 0.5 | ±0.25 | 90±3.5 | 20 |
| HC5500M03 | 5.0 ~ 6.0 | 20 | 10.16×5.08 | 20 | 0.25 | ±0.40 | 90±3.0 | 20 |

3dB 90° High Power & Wide band Hybrid Coupler

3dB 90° 大功率宽带电桥

SMD Package



特点:

- 高功率密度, 大功率输出
- 宽带特性
- 超低损耗
- 驻波小
- 隔离度高
- 优越幅度平衡度和相位平衡度
- 原位替代
- 高可靠性
- 产品一致性好

应用:

- 雷达
- 微波收发模组
- 微波功放系统
- 4G,5G,6G基站与网络覆盖

Wide band & High Power Series for SMT

| Part No. | Freq.Range (GHz) fL- fU | Power (W) | Size LxW (mm) | Return Loss (dB) | Insertion Loss (dB) | Amplitude Balance (dB) | Phase Balance (degrees) | Isolation (dB) | 原位替代 IPP 型号 |
|---------------|----------------------------|-----------|---------------|------------------|---------------------|------------------------|-------------------------|----------------|-------------|
| HC0310W03 | 0.088~0.52 | 200 | 50.8×19.05 | 14-25 | 0.75 | ±0.8 | 90±7.0 | 13 | IPP-7057 |
| HC0450W03 | 0.295~0.605 | 300 | 25.4×12.7 | 16-25 | 0.30 | ±0.5 | 90±3.5 | 16.5 | IPP-7022 |
| HC0600W03 | 0.2~1.0 | 150 | 50.8×19.05 | 20 | 0.35 | ±0.65 | 90±3.0 | 20 | IPP-7012 |
| New HC1100W03 | 0.225~2.0 | 200 | 37.34×28.7 | 18 | 0.80 | ±1.0 | 90±5.0 | 17 | IPP-7116 |
| New HC1200W03 | 0.8~1.6 | 200 | 21.59×6.35 | 19 | 0.25 | ±0.55 | 90±5.0 | 19 | IPP-7048 |
| New HC1500W03 | 1.0~2.0 | 150 | 14.22×8.89 | 21 | 0.20 | ±0.55 | 90±2.0 | 21 | IPP-7047 |
| New HC1505W03 | 0.5~2.5 | 100 | 45.72×12.7 | 17.7 | 0.50 | ±0.65 | 90±5.0 | 18 | IPP-7017 |
| New HC1700W03 | 0.5~3.0 | 200 | 45.72×12.7 | 17-28 | 0.55 | ±1.0 | 90±3.0 | 17 | IPP-7121 |
| New HC1750W03 | 1.0~2.5 | 150 | 14.22×8.89 | 19 | 0.25 | ±0.7 | 90±5.0 | 19 | IPP-7055 |
| New HC2000W03 | 1.0~3.0 | 400 | 25.4×12.7 | 19 | 0.20 | ±1.0 | 90±4.0 | 20 | IPP-7109 |
| New HC2300W03 | 0.8~3.8 | 100 | 45.72×10.16 | 17.7 | 0.50 | ±0.65 | 90±5.0 | 18 | IPP-7063 |
| New HC2600W03 | 1.0~4.2 | 90 | 22.86×12.7 | 13.5-23 | 0.65 | ±0.8 | 90±7.0 | 15 | IPP-7120 |
| New HC3000W03 | 2.0~4.0 | 100 | 14.22×8.89 | 17.6 | 0.35 | ±0.5 | 90±5.0 | 18 | IPP-7018 |
| New HC3100W03 | 2.7~3.5 | 200 | 14.22×8.89 | 19 | 0.25 | ±0.2 | 90±5.0 | 20 | IPP-7075 |
| New HC3105W03 | 2.7~3.5 | 300 | 25.4×12.7 | 17.6 | 0.20 | ±0.25 | 90±5.0 | 18 | IPP-7074 |
| New HC3345W03 | 0.69~6.0 | 50 | 25.4×12.7 | 15.6 | 0.80 | ±0.90 | 90±9.0 | 15 | IPP-7118 |
| New HC3500W03 | 1.0~6.0 | 50 | 41.91×5.08 | 15.5 | 0.75 | ±0.8 | 90±5.0 | 15 | IPP-7026 |
| New HC4005W03 | 2.0~6.0 | 100 | 14.22×5.08 | 20-35 | 0.30 | ±1.0 | 90±4.0 | 20 | IPP-7006 |
| New HC4000W03 | 2.0~6.0 | 250 | 14.22×8.89 | 12-35 | 0.25 | ±1.4 | 90±5.0 | 17 | IPP-7111 |
| New HC4001W03 | 2.0~6.0 | 150 | 31.75×5.08 | 17.7 | 0.40 | ±0.4 | 90±6.0 | 17 | IPP-7150 |
| New HC4250W03 | 2.5~6.0 | 100 | 14.22×5.08 | 17.7 | 0.30 | ±0.75 | 90±5.0 | 18 | IPP-7004 |
| New HC4350W03 | 2.6~6.1 | 100 | 14.22×5.08 | 20-40 | 0.30 | ±0.70 | 90±3.0 | 20 | IPP-7031 |
| New HC4400W03 | 2.0~6.8 | 100 | 14.22×5.08 | 19 | 0.30 | ±1.25 | 90±5.0 | 17 | |
| New HC4450W03 | 2.7~6.2 | 300 | 14.22×8.89 | 17 | 0.30 | ±3.0 | 90±5.0 | 19 | |
| New HC5000W03 | 4.0~5.0 | 100 | 14.22×5.08 | 17.7 | 0.25 | ±0.45 | 90±5.0 | 18 | IPP-7133 |
| New HC6000W03 | 4.0~8.0 | 75 | 10.16×5.08 | 12-35 | 0.45 | ±0.9 | 90±8.0 | 14 | IPP-7039 |
| New HC7250W03 | 6.0~8.5 | 100 | 10.16×5.08 | 17.7 | 0.40 | ±0.35 | 90±6.0 | 17 | IPP-7044 |
| New HC7500W03 | 7.0~8.0 | 125 | 10.16×5.08 | 17.7 | 0.30 | ±0.35 | 90±5.0 | 17 | IPP-7020 |
| New HC9000W03 | 6.0~12.0 | 50 | 6.35×5.08 | 16 | 0.35 | ±0.45 | 90±5.0 | 17.5 | IPP-7114 |
| New HC100HW03 | 8.0~12.0 | 50 | 6.35×5.08 | 16.5 | 0.30 | ±0.55 | 90±6.0 | 17 | IPP-7112 |

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3dB 90° Drop-In Couplers

3dB 90° 插针式宽带大功率电桥 *New*



特点:

- 超低损耗
- 驻波小
- 隔离度高
- 优越幅度平衡度和相位平衡度
- 原位替代
- 高可靠性
- 产品一致性好

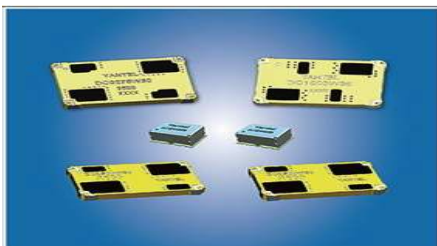
应用:

- 雷达
- 微波收发模组
- 微波功放系统

| | Part No. | Freq.Range (MHz) fL- Fu | Power (W) | Size LxW (mm) | Return Loss (dB) | Insertion Loss (dB) | Amplitude Balance (dB) | Phase Balance (degrees) | Isolation (dB) | 原位替代 IPP 型号 |
|------------|-----------|-------------------------|-----------|---------------|------------------|---------------------|------------------------|-------------------------|----------------|-------------|
| <i>New</i> | HC0053D03 | 30 ~ 76 | 100 | 53.34x50.8 | 20.8 | 0.60 | ±0.75 | 90±6.0 | 21 | - |
| <i>New</i> | HC0059D03 | 30 ~ 88 | 400 | 67.31x67.31 | 20 | 0.30 | ±0.55 | 90±4.0 | 20 | IPP-2052 |
| <i>New</i> | HC0270D03 | 20 ~ 520 | 200 | 55.88x76.2 | 17.7 | 0.8 | ±0.30 | 90±10.0 | 16 | IPP-2255 |
| <i>New</i> | HC0290D03 | 80 ~ 500 | 800 | 63.5x152.4 | 17.7 | 0.35 | ±0.95 | 90±5.0 | 16 | IPP-2133 |
| <i>New</i> | HC0300D03 | 100 ~ 500 | 150 | 38.1x83.82 | 17.7 | 0.5 | ±0.75 | 90±6.0 | 16 | IPP-2069 |
| <i>New</i> | HC0305D03 | 120 ~ 500 | 800 | 63.5x127 | 18 | 0.55 | ±0.70 | 90±3.0 | 19 | IPP-2012 |
| <i>New</i> | HC0310D03 | 100 ~ 520 | 400 | 38.1x83.82 | 17.7 | 0.45 | ±0.75 | 90±5.0 | 17 | IPP-2331 |
| <i>New</i> | HC0312D03 | 225 ~ 400 | 250 | 14.22x41.15 | 20.8 | 0.25 | ±0.50 | 90±5.0 | 20 | Q4T022040 |
| <i>New</i> | HC0315D03 | 225 ~ 400 | 400 | 12.7x50.8 | 19 | 0.25 | ±0.50 | 90±5.0 | 20 | IPP-2003 |
| <i>New</i> | HC0360D03 | 210 ~ 520 | 400 | 12.7x50.8 | 17.7 | 0.30 | ±0.75 | 90±3.0 | 18 | IPP-2053 |
| <i>New</i> | HC0372D03 | 225 ~ 520 | 200 | 12.7x50.8 | 19 | 0.25 | ±0.70 | 90±5.0 | 20 | IPP-2037 |
| <i>New</i> | HC0510D03 | 20 ~ 1000 | 150 | 55.88x76.2 | 17.7 | 0.9 | ±0.25 | 90±12.0 | 16 | IPP-2247 |
| <i>New</i> | HC0700D03 | 400 ~ 1000 | 800 | 67.31x67.31 | 20 | 0.25 | ±0.65 | 90±2.0 | 20 | IPP-2102 |
| <i>New</i> | HC0750D03 | 500 ~ 1000 | 200 | 12.7x34.29 | 20.82 | 0.25 | ±0.50 | 90±5.0 | 20 | IPP-2006 |
| <i>New</i> | HC1225D03 | 800 ~ 1650 | 400 | 12.7x34.29 | 17.7 | 0.2 | ±0.60 | 90±5.0 | 18 | IPP-2167 |
| <i>New</i> | HC1500D03 | 500 ~ 2500 | 200 | 20.32x55.88 | 17.2 | 0.5 | ±0.70 | 90±6.0 | 17 | IPP-2335 |
| <i>New</i> | HC1505D03 | 1000 ~ 2000 | 200 | 12.7x34.29 | 20.8 | 0.25 | ±0.50 | 90±5.0 | 20 | IPP-2007 |
| <i>New</i> | HC1510D03 | 1000 ~ 2000 | 400 | 12.7x34.29 | 18 | 0.30 | ±0.40 | 90±3.0 | 20 | IPP-2041 |
| <i>New</i> | HC1600D03 | 1000 ~ 2000 | 1000 | 25.4x60.96 | 15 | 0.3 | ±0.55 | 90±3.0 | 16 | IPP-2042 |
| <i>New</i> | HC1700D03 | 500 ~ 3000 | 200 | 20.32x55.88 | 17.2 | 0.5 | ±0.70 | 90±5.0 | 17 | IPP-2072 |
| <i>New</i> | HC1750D03 | 800 ~ 2700 | 400 | 22.86x81.28 | 17.7 | 0.4 | ±0.60 | 90±5.0 | 18 | IPP-2084 |
| <i>New</i> | HC2000D03 | 1000 ~ 3000 | 150 | 12.7x34.29 | 17.7 | 0.3 | ±1.10 | 90±5.0 | 18 | IPP-2062 |
| <i>New</i> | HC2100D03 | 1750 ~ 2400 | 400 | 12.7x34.29 | 19 | 0.2 | ±0.30 | 90±5.0 | 20 | IPP-2108 |
| <i>New</i> | HC2250D03 | 1500 ~ 3000 | 400 | 12.7x34.29 | 17.7 | 0.25 | | 90±5.0 | 18 | IPP-2295 |
| <i>New</i> | HC3000D03 | 2000 ~ 4000 | 400 | 12.7x34.29 | 17.7 | 0.3 | ±0.50 | 90±5.0 | 18 | IPP-2073 |
| <i>New</i> | HC4000D03 | 2000 ~ 6000 | 100 | 6.35x33.02 | 17.7 | 0.3 | ±0.10 | 90±5.0 | 18 | IPP-2277 |

Wide band & High Power Series 宽带大功率双定向耦合器

Bi-directional coupler and DUAL directional coupler



特点:

- 超低损耗
- 驻波小
- 高方向性
- 较小带内波
- 原位替代
- 高可靠性
- 符合RoHS标准

应用:

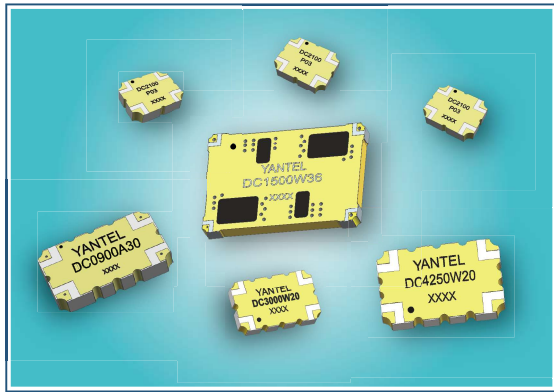
- 雷达
- 第1代&第2代电台
- 测试系统

| | Part No. | Freq.Range (MHz) fL- fU | Power (W) | Size LxW (mm) | Insertion Loss (dB) | Mean Coupling (dB) | Directivity (dB) | Return (dB) | 原位替代 IPP 型号 |
|------------|-----------|-------------------------|-----------|---------------|---------------------|--------------------|------------------|-------------|-----------------|
| | DC0270W50 | 20~520 | 300 | 38.1x25.4 | 0.25 | 50±1.0 | 20 | 19 | IPP-8044 |
| | DC0275W50 | 30~520 | 300 | 38.1x25.4 | 0.20 | 50±1.0 | 21 | 20 | IPP-8045 |
| | DC0285W25 | 30~540 | 100 | 12.7x9.65 | 0.45 | 25±2.0 | 17 | 12 | SYBDC-26-52VHP+ |
| <i>New</i> | DC0385W28 | 70~700 | 150 | 17.7x9.65 | 0.35 | 28±2.0 | 14 | 12 | - |
| <i>New</i> | DC0300W40 | 100~500 | 300 | 38.1x25.4 | 0.25 | 40±1.0 | 20 | 19 | IPP-8046 |
| | DC0500W50 | 20~1000 | 150 | 31.75x19.05 | 0.35 | 50±1.0 | 20 | 13.5 | IPP-8070 |
| | DC0510W50 | 20~1000 | 300 | 38.1x25.4 | 0.30 | 50±1.0 | 14 | 20 | IPP-8036 |
| <i>New</i> | DC0600W40 | 200~1000 | 300 | 38.1x25.4 | 0.35 | 40±1.0 | 20 | 19 | IPP-8025 |
| <i>New</i> | DC1500W20 | 1000~2000 | 200 | 14.22x8.89 | 0.20 | 20±1.0 | 20 | 19 | IPP-8004 |
| | DC1500W36 | 500~2700 | 200 | 38.1x25.4 | 0.40 | 36±1.5 | 18 | 18 | IPP-8041 |
| <i>New</i> | DC1650W20 | 800~2500 | 150 | 25.4x12.7 | 0.25 | 20±1.5 | 20 | 19 | IPP-8029 |
| | DC3000W20 | 2000~4000 | 100 | 14.22x8.89 | 0.25 | 20±1.0 | 20 | 17.5 | IPP-8038 |
| <i>New</i> | DC4000W10 | 2000~6000 | 100 | 14.22x5.08 | 0.25 | 10±1.0 | 18 | 17.7 | IPP-8000 |
| <i>New</i> | DC4000W20 | 2000~6000 | 100 | 14.22x5.08 | 0.25 | 20±1.0 | 16 | 17.7 | IPP-8039 |
| | DC4250W20 | 2500~6000 | 100 | 14.22x8.89 | 0.25 | 22±3.0 | 11~29 | 14~35 | IPP-8001 |
| <i>New</i> | DC4255W20 | 2500~6000 | 100 | 25.41x8.89 | 0.40 | 20±0.5 | 15 | 16.5 | IPP-8007 |

Directional Coupler

定向耦合器

SMD Package



Features

- Very Low Loss
- High Directivity
- Low VSWR
- Good Repeatability
- CTE compatible with FR4, G-10, RF-35, RO4350B and polyimide
- Immersion gold, prevent surface oxidation & scratch
- RoHS Compliant
- Tape & Reel Package available

Applications

- Feed-forward Amplifiers
- Signal Sampling
- 应用于4G,5G,6G基站与网络覆盖

Part No. Description

| ** | **** | * | ** |
|---------------------|-----------------------|-----------------|----------------|
| Directional Coupler | Center Frequency(MHz) | Size(mm) | Coupling Value |
| | 0450=410-480 | B=25.40 x 12.70 | 05=5 dB |
| | 0900=800 to 1000 | A=14.22 x 8.89 | 10=10 dB |
| | 1400=1200 to 1600 | E=14.22 x 5.08 | 20=20 dB |
| DC | 1900=1700 to 2000 | M=10.16 x 5.08 | 30=30 dB |
| | 2100=2000 to 2300 | P=6.35 x 5.08 | |
| | 2500=2300 to 2700 | F=5.08x3.18 | |
| | 3500=3300 to 3800 | T=2x1.25 | |

Specifications

Standard Series

| | Part No. | Freq.Range (GHz) fL- fU | Power (W) | Size LxW (mm) | Insertion Loss (dB) | Mean Coupling (dB) | Directivity (dB) | Return (dB) |
|-----|-----------|----------------------------|-----------|---------------|---------------------|--------------------|------------------|-------------|
| New | DC09T10 | 0.8 ~ 1 | 2 | 2.0x1.25 | 0.3 | 10±0.5 | 18 | 18 |
| New | DC09T20 | 0.7 ~ 1 | 2 | 2.0x1.25 | 0.3 | 20±0.5 | 18 | 18 |
| New | DC19T10 | 1.7 ~ 2.2 | 2 | 2.0x1.25 | 0.3 | 11±1.0 | 18.5 | 20.5 |
| New | DC19T20 | 1.7 ~ 2.2 | 2 | 2.0x1.25 | 0.2 | 20±0.5 | 15.5 | 25 |
| New | DC25T10 | 2.3~ 2.7 | 2 | 2.0x1.25 | 0.2 | 10±0.6 | 20 | 20 |
| New | DC25T20 | 2.3~ 2.7 | 2 | 2.0x1.25 | 0.2 | 19±0.5 | 19.5 | 30 |
| New | DC35T10 | 3.2 ~ 3.7 | 2 | 2.0x1.25 | 0.3 | 10±0.5 | 18 | 20 |
| New | DC35T20 | 3.2 ~ 3.7 | 2 | 2.0x1.25 | 0.3 | 20±0.5 | 18 | 20 |
| New | DC55T20 | 4.4 ~ 6.3 | 2 | 2.0x1.25 | 0.5 | 20±0.8 | 16 | 16 |
| New | DC07F02 | 0.69 ~ 1.0 | 25 | 5.08x3.18 | 0.3 | 2.1±0.2 | 17 | 19 |
| New | DC09F05 | 0.7 ~ 1.0 | 25 | 5.08x3.18 | 0.25 | 5±0.3 | 16.5 | 19 |
| New | DC09F20 | 0.7 ~ 1.0 | 25 | 5.08x3.18 | 0.14 | 20±1.0 | 14.5 | 10 |
| New | DC19F05 | 1.7 ~ 2.3 | 25 | 5.08x3.18 | 0.15 | 5±0.3 | 20 | 20 |
| New | DC19F20 | 1.4 ~ 2.7 | 25 | 5.08x3.18 | 0.3 | 20±1.5 | 16 | 16.5 |
| New | DC20F02 | 1.8 ~ 2.2 | 24 | 5.08x3.18 | 0.25 | 1.85±0.2 | 16.7 | 18 |
| New | DC20F30 | 1.4 ~ 2.7 | 100 | 5.08x3.18 | 0.3 | 30.5±1.5 | 16 | 15.6 |
| New | DC25F02 | 2.3 ~ 2.7 | 20 | 5.08x3.18 | 0.35 | 2±0.20 | 16 | 16 |
| New | DC25F04 | 2.3 ~ 2.7 | 25 | 5.08x3.18 | 0.25 | 4±0.30 | 18 | 20 |
| New | DC25F05 | 2.3 ~ 2.7 | 25 | 5.08x3.18 | 0.25 | 5.0±0.5 | 15 | 19 |
| New | DC30F30 | 2.3 ~ 3.8 | 100 | 5.08x3.18 | 0.12 | 30±1.5 | 20 | 20 |
| New | DC55F30 | 4.9 ~ 6.3 | 100 | 5.08x3.18 | 0.15 | 30±1.5 | 19 | 19 |
| New | DC0900P05 | 0.8 ~ 1.0 | 25 | 6.35x5.08 | 0.35 | 5.0±0.5 | 14 | 17 |

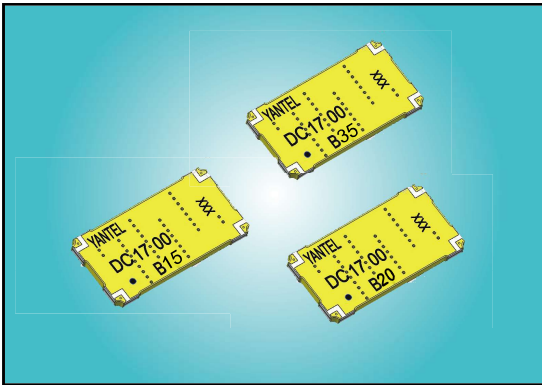
New

| Part No. | Freq.Range (GHz) fL- fU | Power (W) | Size L×W (mm) | Insertion Loss (dB) | Mean Coupling (dB) | Directivity (dB) | Return (dB) |
|------------|-------------------------------|--------------|---------------------|---------------------------|--------------------------|---------------------|----------------|
| DC0900P30 | 0.7 ~ 1.0 | 225 | 6,35×5,08 | 0,1 | 30±1,5 | 17,5 | 20,8 |
| DC0900P10 | 0,8 ~ 1,0 | 25 | 6,35×5,08 | 0,4 | 10,0±0,80 | 11 | 14,1 |
| DC1900P05 | 1,7 ~ 2,0 | 35 | 6,35×5,08 | 0,25 | 5±0,30 | 20 | 20 |
| DC1900P05H | 1,7 ~ 2,0 | 70 | 6,35×5,08 | 0,18 | 5±0,40 | 20 | 20,8 |
| DC1400P10 | 1,2 ~ 1,7 | 80 | 6,35×5,08 | 0,25 | 10±1,0 | 20 | 20,8 |
| DC1900P10 | 1,7 ~ 2,0 | 20 | 6,35×5,08 | 0,25 | 10±0,50 | 20 | 20,8 |
| DC1900P20 | 1,7 ~ 2,0 | 25 | 6,35×5,08 | 0,2 | 20±2,5 | 16 | 15,5 |
| DC1900P30 | 1,7 ~ 2,0 | 225 | 6,35×5,08 | 0,2 | 29±1,5 | 20 | 19,5 |
| DC2100P05 | 2,0 ~ 2,3 | 30 | 6,35×5,08 | 0,25 | 5±0,30 | 20 | 20 |
| DC2100P05H | 2,0 ~ 2,3 | 70 | 6,35×5,08 | 0,18 | 5±0,30 | 21 | 23,1 |
| DC2100P10 | 2,0 ~ 2,3 | 20 | 6,35×5,08 | 0,25 | 10±0,55 | 19 | 19,1 |
| DC2100P18 | 1,85 ~ 2,22 | 25 | 6,35×5,08 | 0,15 | 18±0,5 | 30 | 23,1 |
| DC2100P20 | 2,0 ~ 2,3 | 25 | 6,35×5,08 | 0,31 | 20±1,5 | 18 | 19,7 |
| DC2300P18 | 2,25 ~ 2,5 | 25 | 6,35×5,08 | 0,15 | 18±0,50 | 30 | 23,1 |
| DC2500P02 | 2,3 ~ 2,7 | 60 | 6,35×5,08 | 0,35 | 2±0,50 | 20 | 17,7 |
| DC2500P05 | 2,3 ~ 2,7 | 60 | 6,35×5,08 | 0,35 | 5±0,40 | 19 | 20 |
| DC2500P10 | 2,3 ~ 2,7 | 20 | 6,35×5,08 | 0,25 | 10±0,75 | 18 | 20,1 |
| DC2500P20 | 2,3 ~ 2,7 | 25 | 6,35×5,08 | 0,16 | 20±1,5 | 16 | 22,1 |
| DC3500P20 | 3,3 ~ 3,8 | 45 | 6,35×5,08 | 0,2 | 20±1,00 | 20 | 20,8 |
| DC0900A05 | 0,8 ~ 1,0 | 250 | 14,22×8,89 | 0,19 | 5,0±0,35 | 21 | 21,2 |
| DC0900A10 | 0,8 ~ 1,0 | 225 | 14,22×8,89 | 0,18 | 10,0±0,50 | 20 | 20,8 |
| DC0900A20 | 0,8 ~ 1,0 | 150 | 14,22×8,89 | 0,18 | 20,0±0,70 | 20 | 20 |
| DC0900A30 | 0,8 ~ 1,0 | 150 | 14,22×8,89 | 0,18 | 30,0±1,50 | 20 | 20,8 |
| DC1500A10 | 1,0 ~ 2,0 | 60 | 14,22×8,89 | 0,15 | 10±1,0 | 20 | 20,8 |
| DC1500A20 | 1,0 ~ 2,0 | 160 | 14,22×8,89 | 0,15 | 20±1,50 | 20 | 20,8 |
| DC1500A30 | 1,0 ~ 2,0 | 120 | 14,22×8,89 | 0,16 | 30±2,4 | 12 | 20,8 |
| DC1900A05 | 1,7 ~ 2,0 | 200 | 14,22×8,89 | 0,19 | 5,0±0,25 | 22 | 23,1 |
| DC1900A10 | 1,7 ~ 2,0 | 175 | 14,22×8,89 | 0,15 | 10±0,40 | 20 | 20,8 |
| DC1900A20 | 1,7 ~ 2,0 | 150 | 14,22×8,89 | 0,15 | 20,0±0,80 | 20 | 23,1 |
| DC1900A30 | 1,7 ~ 2,0 | 120 | 14,22×8,89 | 0,21 | 30,0±1,50 | 18 | 20,8 |
| DC2100A05 | 2,0 ~ 2,3 | 125 | 14,22×8,89 | 0,18 | 5,0±0,25 | 20 | 19,7 |
| DC2100A10 | 2,0 ~ 2,3 | 175 | 14,22×8,89 | 0,2 | 10±0,20 | 25 | 23 |
| DC2100A20 | 2,0 ~ 2,3 | 120 | 14,22×8,89 | 0,15 | 20,0±0,60 | 22 | 20,8 |
| DC2100A30 | 2,0 ~ 2,3 | 120 | 14,22×8,89 | 0,13 | 30±1,0 | 17 | 20,8 |
| DC0300L20 | 0,19 ~ 0,4 | 100 | 16,51×12,19 | 0,14 | 20,1±1,50 | 15,7 | 23 |
| DC0350M20 | 0,35 ~ 0,47 | 20 | 10,16×5,08 | 0,1 | 19,8±2,0 | 19 | 24 |
| DC0850M20 | 0,7 ~ 1,0 | 20 | 10,16×5,08 | 0,1 | 19,8±2,0 | 19 | 24 |
| DC0900M30 | 0,8 ~ 1,0 | 20 | 10,16×5,08 | 0,1 | 26,5±0,4 | 15 | 16,5 |
| DC3500M10 | 3,3 ~ 3,7 | 22 | 10,16×5,08 | 0,25 | 10,5±0,80 | 20 | 20,8 |
| DC3500M20 | 3,3 ~ 3,8 | 80 | 10,16×5,08 | 0,2 | 20±1,00 | 21 | 20,8 |
| DC0450E20 | 0,35~ 0,52 | 100 | 14,22×5,08 | 0,2 | 20,0±1,0 | 18 | 17,7 |
| DC0900E20 | 0,8 ~ 1,0 | 200 | 14,22×5,08 | 0,1 | 20±1,0 | 22 | 21 |
| DC2500E10 | 2,3 ~ 2,7 | 145 | 14,22×5,08 | 0,14 | 10±0,50 | 20 | 21,2 |
| DC0900B30 | 0,8 ~ 1,0 | 355 | 25,4×12,7 | 0,12 | 29,8±1,0 | 25 | 23,1 |

Directional Coupler

宽带大功率定向耦合器 (替代MINI)

SMD Package



特点:

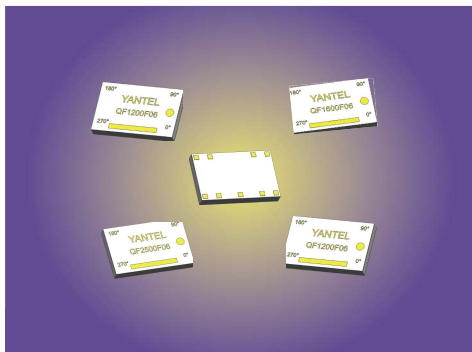
- 超低损耗
- 驻波小
- 高方向性
- 较小带内波
- 原位替代
- 高可靠性
- 符合RoHS标准

应用:

- 雷达系统
- 通信系统
- 测试系统

| Part No. | Freq.Range (GHz) fL-fU | Power (W) | Size LxW (mm) | Insertion Loss (dB) | Mean Coupling (dB) | Directivity (dB) | Return (dB) | 原位替代 MINI 型号 |
|---------------|------------------------|-----------|---------------|---------------------|--------------------|------------------|-------------|--------------|
| New DC4000B10 | 2.0 ~ 6.0 | 100 | 25.4x12.7 | 0.1 | 10±1.0 | 22 | 24.9 | BDCH-10-63+ |
| New DC1750B15 | 0.5 ~ 3.0 | 100 | 25.4x12.7 | 0.25 | 15±1.0 | 25 | 29..4 | BDCH-15-33+ |
| New DC4000B20 | 2.0 ~ 6.0 | 180 | 25.4x12.7 | 0.15 | 20±1.0 | 19 | 20.8 | BDCH-20-63+ |
| New DC4000B18 | 2.0 ~ 6.0 | 140 | 25.4x12.7 | 0.15 | 18±1.0 | 29 | 26.4 | BDCH-20-63A+ |
| New DC1900B25 | 0.8 ~ 3.0 | 150 | 25.4x12.7 | 0.2 | 25±1.0 | 28 | 20.8 | BDCH-25-33+ |
| New DC1700B15 | 0.7 ~ 2.7 | 150 | 25.4x12.7 | 0.35 | 15±1.2 | 20 | 20.8 | BDCH-15-272 |
| New DC1700B20 | 0.7 ~ 2.7 | 150 | 25.4x12.7 | 0.35 | 20±1.2 | 20 | 20.8 | BDCH-20-272 |
| New DC1700B35 | 0.7 ~ 2.7 | 150 | 25.4x12.7 | 0.3 | 35.5±1.5 | 18 | 19.0 | BDCH-35-272 |

四相位耦合器/四相位移相器/四臂螺旋天线耦合器 (PTFE工艺)



特点

- 小尺寸: 5.08×3.18(mm)
- 低插入损耗
- 优异的相位、幅度平衡度
- 一致性非常好
- 内置50欧姆负载 (无需外接负载)
- 四角度耦合器具有一个输入端口和四个不同相位的输出端口 -6dB - (0° /90° /180° /270°)
- 四相位耦合器
- 工作温度: -40℃~+85℃
- 可提供编带包装

应用

- 车载天线
- 天线耦合器
- 移相器网络
- 无人机
- 卫星天线等

| Part No. | Freq.Range (GHz) | Power (W) | Size LxW (mm) | Return Loss (dB) | Insertion loss (dB) | Amplitude Balance (dB) | Phase Balance (degrees) | Isolation (dB) |
|----------------|------------------|-----------|---------------|------------------|---------------------|------------------------|-------------------------|----------------|
| New QF0900F06A | 800~1000 | 5 | 5.08x4.0 | 15 | 1.1 | ±1.6 | 90±7.0 | 15 |
| New QF0900F06B | 800~1000 | 5 | 5.08x4.0 | 15 | 1.1 | ±1.6 | 90±7.0 | 15 |
| New QF1200F06A | 1165~1300 | 5 | 5.08x3.18 | 16.9 | 0.5 | ±0.6 | 90±8.0 | 15 |
| New QF1200F06B | 1165~1300 | 5 | 5.08x3.18 | 16.9 | 0.5 | ±0.6 | 90±8.0 | 15 |
| New QF1600F06A | 1520~1660 | 5 | 5.08x3.18 | 17.7 | 0.5 | ±0.5 | 90±8.0 | 18 |
| New QF1600F06B | 1520~1660 | 5 | 5.08x3.18 | 17.7 | 0.5 | ±0.5 | 90±8.0 | 18 |
| New QF2100F06A | 1980~2200 | 5 | 5.08x3.18 | 18 | 0.5 | ±0.6 | 90±8.0 | 22 |
| New QF2100F06B | 1980~2200 | 5 | 5.08x3.18 | 18 | 0.5 | ±0.6 | 90±8.0 | 22 |
| New QF2500F06A | 2400~2600 | 5 | 5.08x3.18 | 17.7 | 0.5 | ±0.5 | 90±10.0 | 22 |
| New QF2500F06B | 2400~2600 | 5 | 5.08x3.18 | 17.7 | 0.5 | ±0.5 | 90±10.0 | 22 |
| New QF1400W06B | 1165~1300 | 5 | 9.8x7.9 | 16 | 1.0 | ±0.5 | 90±10.0 | 21 |
| | 1520~1660 | | | 14.5 | 0.7 | ±0.55 | 90±9.0 | 20 |

High Performance Passive RF IC 高性能无源射频IC

• 2-way 0° Power Divider IC

2路功分器IC 集成电路布图设计知识产权



Features

- Built with leading edge RF IC design technology
- Passive RF IC, no need external DC power supply
- No need external 100 ohm resistor
- Low Loss & Low VSWR
- High isolation
- Excellent amplitude & phase balance
- Ultra small size: 2.0 x 2.0 mm
- Excellent repeatability
- Average Power: 2 Watts @ divider, 1 Watts @ combiner
- Tape & Reel

Applications

- Onboard information system (Blue link, E-call Box)
- Vehicle Cell Phone Signal Booster
- Real Time Location System
- RFID reader, active tag, antenna
- Small & mini repeater, LTE home repeater
- Wireless communications
- Satellite Communications
- GNSS receiver, GNSS boards

2-way 0° Power Divider

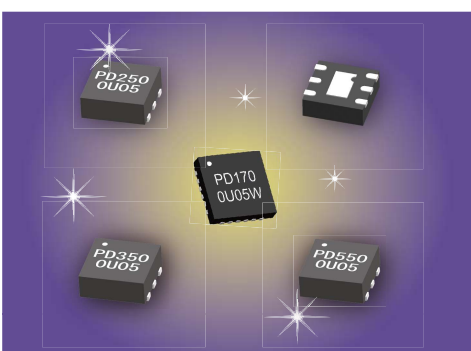
| Part No. | Freq. Range (MHz) | Power (W) as a divider | Power (W) as a combiner | Package LxW (mm) | Insertion loss (dB) | Amplitude Balance (dB) | Phase Balance (deg) | Isolation (dB) | Input VSWR (:1) | Output VSWR (:1) |
|--------------|-------------------|------------------------|-------------------------|------------------|---------------------|------------------------|---------------------|----------------|-----------------|------------------|
| PD090U03-070 | 800-1000 | 2 | 1 | DFN2X2 | 0.5 | ±0.1 | 2.0 | 17 | 1.35 | 1.25 |
| PD150U03-140 | 1350-1650 | 2 | 1 | DFN2X2 | 0.35 | ±0.1 | 1.5 | 20 | 1.35 | 1.2 |
| PD1500U03W | 1000-2000 | 2 | 1 | DFN2X2 | 0.7 | ±0.1 | ±0.5 | 10~20 | 1.5 | 1.45 |
| PD185U03-080 | 1650-2050 | 2 | 1 | DFN2X2 | 0.45 | ±0.15 | 2.0 | 16 | 1.4 | 1.25 |
| PD215U03-090 | 1900-2350 | 2 | 1 | DFN2X2 | 0.5 | ±0.15 | 2.0 | 10 | 1.5 | 1.25 |
| PD245U03-100 | 2200-2650 | 2 | 1 | DFN2X2 | 0.5 | ±0.15 | 3.0 | 15 | 1.5 | 1.35 |
| PD355U03-110 | 3300-3800 | 2 | 1 | DFN2X2 | 0.5 | ±0.2 | 2.0 | 17 | 1.55 | 1.2 |
| PD1700U03W | 600-2900 | 2 | 1 | QFN3X3 | 0.7 | ±0.1 | ±0.5 | 11~27 | 1.2~1.6 | 1.1~1.6 |

Wide band 2-way 0° Power Divider (QFN & Die) *New*

| Part No. | Freq. Range (MHz) | Power (W) as a divider | Power (W) as a combiner | Package LxW (mm) | Insertion loss (dB) | Amplitude Balance (dB) | Phase Balance (deg) | Isolation (dB) | Input VSWR (:1) | Output VSWR (:1) |
|------------|-------------------|------------------------|-------------------------|------------------|---------------------|------------------------|---------------------|----------------|-----------------|------------------|
| PD0715U03W | 1800~12500 | 2.5 | 1.25 | Die or QFN4X4 | 2.0 | ±0.4 | 5.0 | 10 | 1.45 | 1.45 |
| PD1425U03W | 2000~26500 | 2.5 | 1.25 | Die or QFN4X4 | 1.5 | ±0.4 | 5.0 | 10 | 1.65 | 1.55 |
| PD2275U03W | 3000~42500 | 2.5 | 1.25 | Die or QFN4X4 | 2.2 | ±0.5 | 5.0 | 10 | 1.90 | 1.50 |
| PD3350U03W | 700~6000 | 2.5 | 1.25 | Die or QFN5X5 | 1.5 | ±0.3 | 5.0 | 10 | 1.65 | 1.30 |

• 3-way 0° Power Divider IC

New 三路功分器IC



Features

- Built with leading edge RF IC design technology
- Passive RF IC, no need external DC power supply
- No need external 100 ohm resistor
- Small size (4x4 mm or 2x2 mm)
- Very low loss
- Tight amplitude balance
- High isolation
- Low VSWR
- Good repeatability
- Tape & Reel
- Power handling: 2 Watts as a divider, 0.5 Watts as a combiner

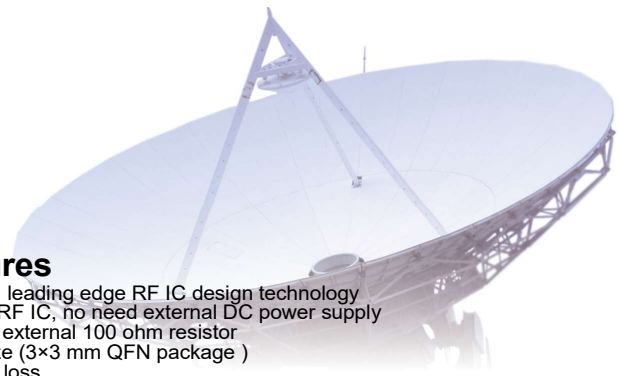
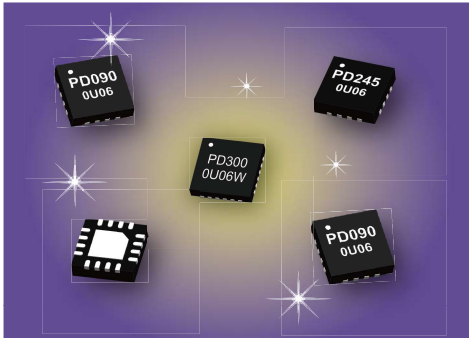
3-way 0° Power Divider

| Part No. | Freq. Range (MHz) | Power (W) as a divider | Power (W) as a combiner | Package LxW (mm) | Insertion loss (dB) | Amplitude Balance (dB) | Phase Balance (deg) | Isolation (dB) | Input VSWR (:1) | Output VSWR (:1) |
|----------|-------------------|------------------------|-------------------------|------------------|---------------------|------------------------|---------------------|----------------|-----------------|------------------|
| PD250U05 | 2300~2700 | 2.8 | 0.8 | Die or QFN2X2 | 0.80 | ±0.2 | ±5 | 16 | 1.40 | 1.40 |
| PD350U05 | 3200~3700 | 2.8 | 0.8 | Die or QFN2X2 | 0.7 | ±0.2 | ±5 | 15.5 | 1.50 | 1.50 |
| PD550U05 | 4400~6050 | 2.8 | 0.8 | Die or QFN2X2 | 1.2 | ±0.2 | 1.5±5 | 16 | 1.78 | 1.40 |

• 4-way 0° Power Divider IC

4路功分器IC

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Features

- Built with leading edge RF IC design technology
- Passive RF IC, no need external DC power supply
- No need external 100 ohm resistor
- Small size (3×3 mm QFN package)
- Very low loss
- Tight amplitude balance
- High isolation
- Low VSWR
- Good repeatability
- Tape & Reel
- Power handling: 2 Watts as a divider, 0.5 Watts as a combiner

Applications

- Vehicle Cell Phone Signal Booster
- Satellite Communications
- GNSS receiver,GNSS boards

4-way 0° Power Divider

| Part No. | Freq. Range (MHz) | Power (W) as a divider | Power (W) as a combiner | Package LxW (mm) | Insertion loss (dB) | Amplitude Balance (dB) | Phase Balance (deg) | Isolation (dB) | Input VSWR (:1) | Output VSWR (:1) |
|---------------|-------------------|------------------------|-------------------------|------------------|---------------------|------------------------|---------------------|----------------|-----------------|------------------|
| PD090U06-150 | 820~960 | 2 | 0.5 | QFN3X3 | 0.8 | ±0.20 | ±1.5 | 22 | 1.3 | 1.2 |
| PD1400U06-524 | 1200~1650 | 2 | 0.5 | QFN3X3 | 0.45~0.7 | ±0.20 | ±1.5 | 13~47 | 1.6 | 1.4 |
| PD1850U06-160 | 1700~2000 | 2 | 0.5 | QFN3X3 | 0.60 | ±0.35 | ±2.0 | 16 | 1.40 | 1.50 |
| PD2200U06-170 | 1700~2700 | 2 | 0.5 | QFN3X3 | 0.6~1.1 | ±0.35 | ±2.0 | 12~35 | 1.8 | 1.6 |
| PD2450U06-180 | 2300~2700 | 2 | 0.5 | QFN3X3 | 0.7 | ±0.40 | ±2.0 | 18 | 1.35 | 1.25 |

二路功分器 (PTFE工艺)



特点

- 无源射频,无需外接电源
- 插入损耗非常小和低驻波比
- 高隔离度
- 优异的幅度、相位平衡性能
- 小尺寸:2.0 x 1.25 mm
- 一致性非常好
- 可提供编带包装
- 功率: 2 Watts 作为功分
1 Watts 作为合路

应用

- 车载天线
- GNSS 导航定位天线
- GNSS 接收机板卡
- 无人机
- 天线模组

| Part No. | Freq.Range (MHz) | Power (W) | Size L×W (mm) | VSWR | Insertion Loss (dB) | Amplitude Balance (dB) | Phase Balance (degrees) | Isolation (dB) |
|----------|------------------|-----------|---------------|------|---------------------|------------------------|-------------------------|----------------|
| PD05T03 | 400~900 | 2 | 2.0×1.25 | 1.8 | 0.7 | ±0.5 | 90±4.0 | 9 |
| PD07T03 | 600~ 800 | 2 | 2.0×1.25 | 2.0 | 0.9 | ±0.5 | 90±3.0 | 12 |
| PD09T03 | 800~1000 | 2 | 2.0×1.25 | 1.5 | 0.6 | ±0.6 | 90±4.0 | 17 |
| PD15T03 | 950 ~ 2150 | 2 | 2.0×1.25 | 1.78 | 0.8 | ±0.3 | 90±3.0 | 9 |
| PD19T03 | 1700~2200 | 2 | 2.0×1.25 | 1.9 | 0.8 | ±0.3 | 90±4.0 | 15 |
| PD25T03 | 2300~2800 | 2 | 2.0×1.25 | 1.45 | 0.5 | ±0.3 | 90±3.0 | 17 |
| PD24T03 | 2400~2500 | 2 | 2.0×1.25 | 1.3 | 0.4 | ±0.2 | 90±3.0 | 22 |
| PD30T03 | 2922~3222 | 1 | 2.0×1.25 | 1.2 | 0.4 | ±0.5 | 90±4.0 | 24 |
| PD40T03 | 3100~5000 | 2 | 2.0×1.25 | 2.8 | 1.3 | ±0.4 | 90±4.0 | 13 |
| PD53T03 | 4800~5900 | 2 | 2.0×1.25 | 2.3 | 1.0 | ±0.3 | 90±4.0 | 14 |
| PD51T03 | 4905~5455 | 1 | 2.0×1.25 | 1.2 | 0.3 | ±0.2 | 90±3.0 | 21 |

• 3dB 90° Coupler IC 3dB 90° 电桥 IC

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Features

- Built with leading edge RF IC design technology
- Passive RF IC, no need external DC power supply
- Low Loss & Low VSWR
- High isolation
- Excellent amplitude & phase balance
- Ultra small size: 2.0 x 2.0 mm
- Excellent repeatability
- Tape & Reel

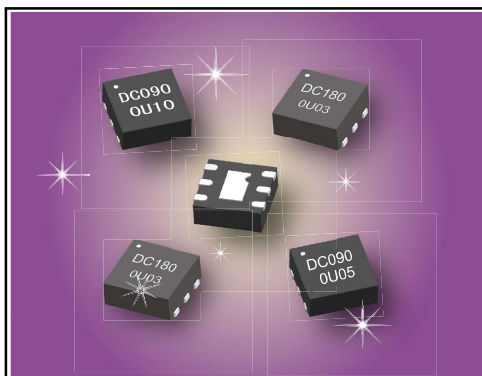
Applications

- GPS antenna, Beidou antenna, Satellite antenna, Aviation antenna, Measuring antenna
- RFID reader, active tag, antenna
- Small & mini repeater, LTE home repeater
- Phase shifter / Attenuator
- Balanced amplifier / LNA configurations
- Modulators
- Mixers
- Power combining /dividing

| Part No. | Freq. Range (MHz) fL- fU | Power (W) | Plastic LxW (mm) | Insertion Loss (dB) | Amplitude Balance (dB) | Phase Balance (deg) | Isolation (dB) | Return Loss (dB) |
|---------------|--------------------------|-----------|------------------|---------------------|------------------------|---------------------|----------------|------------------|
| HC0850U03-010 | 820-900 | 4 | DFN2X2 | 0.3 | ±0.45 | ±1.0 | 25 | 25 |
| HC0925U03-020 | 880-960 | 4 | DFN2X2 | 0.3 | ±0.3 | ±1.5 | 27 | 29 |
| HC1150U03-190 | 1120-1260 | 4 | DFN2X2 | 0.35 | ±0.7 | ±1.0 | 30 | 30 |
| HC1650U03-200 | 1550-1750 | 4 | DFN2X2 | 0.35 | ±0.6 | ±1.0 | 35 | 28 |
| HC1850U03-030 | 1750-1950 | 4 | DFN2X2 | 0.25 | ±0.5 | ±1.0 | 25 | 32 |
| HC2150U03-040 | 2050-2250 | 4 | DFN2X2 | 0.25 | ±0.5 | ±1.0 | 30 | 28 |
| HC2500U03-050 | 2300-2650 | 4 | DFN2X2 | 0.35 | ±0.5 | ±1.0 | 24 | 22 |
| HC2500U03-055 | 2300-2650 | 4 | DFN2X2 | 0.35 | ±0.5 | ±1.0 | 30 | 25 |
| HC3550U03-060 | 3300-3800 | 4 | DFN2X2 | 0.4 | ±0.4 | ±6.0 | 20 | 18 |

• Directional Coupler IC 定向耦合器 IC

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Features

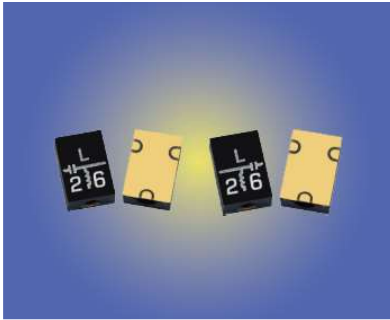
- Built with leading edge RF IC design technology
- Passive RF IC, no need external DC power supply
- Wide Freq range 350-4000MHz
- Very Low Loss & Low VSWR
- Excellent directivity
- Broad frequency coverage
- High isolation
- Good repeatability
- Power handling : 4 or 5 watts
- Small size (2x2mm)
- Tape & Reel

Applications

- RFID reader, active tag, antenna
- Small & mini repeater, LTE home repeater
- Feed-forward amplifier
- Signal Sampling

| Part No. | Freq. Range (MHz) | Power (W) | Plastic LxW (mm) | Coupling (dB) | Insertion loss (dB) | VSWR (:1) | Directivity (dB) |
|---------------|-------------------|-----------|------------------|---------------|---------------------|-----------|------------------|
| DC0410U20-060 | 350~410 | 5 | DFN2x2 | 18.3-19.5 | 0.11 | 1.06 | 20.2 |
| | 410~470 | 5 | DFN2x2 | 17-18.3 | 0.11 | 1.06 | 19.7 |
| DC0850U20-122 | 750~800 | 5 | DFN2x2 | 20.7-20.9 | 0.06 | 1.06 | 10.9 |
| | 800~850 | 5 | DFN2x2 | 20.2-20.6 | 0.09 | 1.06 | 10.9 |
| | 850~900 | 5 | DFN2x2 | 19.8-20.1 | 0.11 | 1.06 | 10.8 |
| DC0900U05 | 900~950 | 5 | DFN2x2 | 19.1-19.6 | 0.09 | 1.06 | 10.7 |
| | 830~880 | 5 | DFN2x2 | 4.7-4.8 | 0.25 | 1.03 | 25.2 |
| | 880~930 | 5 | DFN2x2 | 4.5-4.6 | 0.25 | 1.03 | 24.8 |
| DC0900U10-053 | 750~850 | 5 | DFN2x2 | 10-10.9 | 0.17 | 1.05 | 18.7 |
| | 850~950 | 5 | DFN2x2 | 9.2-10 | 0.16 | 1.05 | 19 |
| | 950~1050 | 5 | DFN2x2 | 8.4-9.2 | 0.18 | 1.05 | 19.3 |
| DC1800U05-050 | 1700~1850 | 5 | DFN2x2 | 4.6-5.1 | 0.22 | 1.12 | 18.5 |
| | 1850~2050 | 5 | DFN2x2 | 4.2-4.6 | 0.18~0.21 | 1.14 | 19.4 |
| | 2050~2200 | 5 | DFN2x2 | 3.8-4.2 | 0.18 | 1.15 | 20.1 |
| DC1800U10-123 | 1700~1850 | 4 | DFN2x2 | 10.7 | 0.25 | 1.04 | 20 |
| | 1850~2050 | 4 | DFN2x2 | 10-10.4 | 0.26 | 1.04 | 22 |
| | 2050~2200 | 4 | DFN2x2 | 9.5 | 0.29 | 1.03 | 24 |
| DC4000U10-120 | 1700~2700 | 4 | DFN2x2 | 12.5-14.5 | 0.55 | 1.28 | 19 |
| | 2700~4000 | 4 | DFN2x2 | 11 | 0.85 | 1.25 | 25 |

New BIAS T 偏置电路-模块&MMIC系列 (替换Marki)



Features

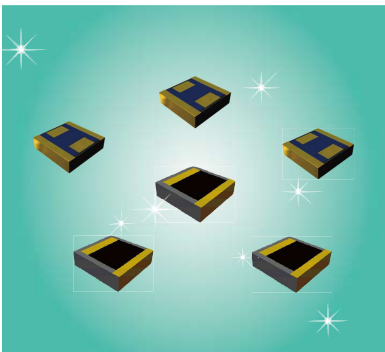
- Up to 35GHz
- 功率1W、DC 500mA
- 低插入损耗
- SMD封装

Applications

- 偏置放大器
- 偏置激光二极管
- 偏置行源天线

| Part No. | Freq.Range (GHz) | Insertion Loss (dB) | DC Current(A) | DC Port Isolation (dB) | DC Voltage (V) |
|-------------|------------------|---------------------|---------------|------------------------|----------------|
| YT-BT-0010 | 0.02~10 | 0.5 | 0.5 | 40 | 30 |
| YT-BTL-0012 | 0.0005~12 | 0.5 | 0.5 | 35 | 30 |
| YT-BTL-0026 | 0.0005~26 | 1 | 0.5 | 35 | 30 |
| YT-BT-0026 | 0.02~26 | 1 | 0.5 | 40 | 35 |
| YT-BT-0035 | 0.02~35 | 1 | 0.5 | 35 | 30 |
| YT-BTL-0035 | 0.0005~35 | 1 | 0.5 | 35 | 30 |

New 金刚石衰减片 (替换EMC)



特点

- 小尺寸 - 重量轻
- 极高的热导率
- 高峰值功率
- 纯金输入板
- 高功率20W

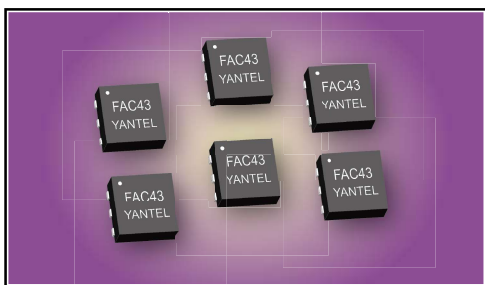
应用

- 相控阵雷达
- 限幅器
- 微波收发模块

| Model | Attenuation (dB) | Attenuation Accuracy | VSWR:1 (typical) |
|-----------|------------------|----------------------|------------------|
| | | DC~26.5GHz | DC~26.5GHz |
| AD0505-00 | 0 | ±0.20 | 1.5 |
| AD0505-01 | 1 | ±0.20 | 1.5 |
| AD0505-02 | 2 | ±0.20 | 1.5 |
| AD0505-03 | 3 | ±0.20 | 1.5 |
| AD0505-05 | 5 | ±0.30 | 1.5 |
| AD0505-06 | 6 | ±0.30 | 1.5 |
| AD0505-08 | 8 | ±0.30 | 1.5 |
| AD0505-09 | 9 | ±0.30 | 1.5 |
| AD0505-10 | 10 | ±0.35 | 1.5 |
| AD0505-12 | 12 | ±0.35 | 1.5 |
| AD0505-15 | 15 | ±0.40 | 1.5 |
| AD0505-20 | 20 | ±0.50 | 1.5 |
| AD0505-25 | 25 | ±0.50 | 1.5 |
| AD0505-30 | 30 | ±0.55 | 1.5 |

• Fixed Attenuator IC

New 固定衰减片 IC 集成电路版图设计知识产权



Features

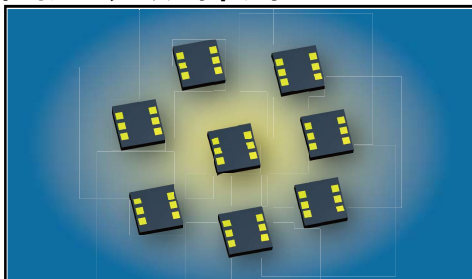
- Small Size (2×2mm DFN package)
- Super Wide bandwidth, DC~26GHz
- Excellent VSWR, 1.3:1 typ.
- High Power Handling, 2W

DC to 26 GHz, Up to 2W, 50Ω, DFN 2*2-6L 封装, 高衰减精度, GaAs

| Part Number | Attenuation (dB) | Attenuation Accuracy (typical) (dB) | | VSWR:1 (typical) | |
|-------------|------------------|-------------------------------------|----------|------------------|----------|
| | | DC~18GHz | 18~26GHz | DC~18GHz | 18~26GHz |
| FAC4300 | 0 | ±0.10 | ±0.13 | 1.2 | 1.2 |
| FAC4301 | 1 | ±0.10 | ±0.15 | 1.2 | 1.2 |
| FAC4302 | 2 | ±0.10 | ±0.2 | 1.2 | 1.2 |
| FAC4303 | 3 | ±0.10 | ±0.2 | 1.2 | 1.2 |
| FAC4304 | 4 | ±0.10 | ±0.2 | 1.2 | 1.2 |
| FAC4305 | 5 | ±0.10 | ±0.15 | 1.2 | 1.2 |
| FAC4306 | 6 | ±0.10 | ±0.15 | 1.25 | 1.3 |
| FAC4307 | 7 | ±0.15 | ±0.2 | 1.25 | 1.35 |
| FAC4308 | 8 | ±0.10 | ±0.15 | 1.25 | 1.35 |
| FAC4309 | 9 | ±0.10 | ±0.15 | 1.3 | 1.35 |
| FAC4310 | 10 | ±0.25 | ±0.25 | 1.3 | 1.35 |
| FAC4312 | 12 | ±0.15 | ±0.15 | 1.2 | 1.3 |
| FAC4315 | 15 | ±0.20 | ±0.2 | 1.25 | 1.3 |
| FAC4320 | 20 | ±0.20 | ±0.3 | 1.1 | 1.2 |
| FAC4325 | 25 | ±0.45 | ±0.2 | 1.1 | 1.2 |
| FAC4330 | 30 | ±0.15 | ±0.15 | 1.15 | 1.2 |

• Fixed Attenuator Die

New 固定衰减裸片 集成电路版图设计知识产权



Features

- Adopting advance GaAs technology
- Excellent attenuation accuracy & phase balance
- High ESD level
- Low VSWR
- Die Package
- DC to 43.5GHz

DC to 43.5GHz, 0.8~2W, 50Ω, size(mm) : 0.6×0.6×0.1

| Part Number | Attenuation (dB) | Attenuation Accuracy (typical) (dB) | | | VSWR:1 (typical) | | |
|-------------|------------------|-------------------------------------|------------|--------------|------------------|------------|---------------|
| | | DC~18GHz | 18~26.5GHz | 26.5~43.5GHz | DC~18GHz | 18~26.5GHz | 26.5~43.5 GHz |
| FAC4300D | 0 | ±0.25 | 0.35 | 0.50 | 1.2 | 1.2 | 1.2 |
| FAC4301D | 1 | ±0.20 | 0.35 | 0.45 | 1.2 | 1.2 | 1.3 |
| FAC4302D | 2 | ±0.15 | 0.3 | 0.4 | 1.2 | 1.2 | 1.2 |
| FAC4303D | 3 | ±0.15 | 0.3 | 0.4 | 1.2 | 1.2 | 1.25 |
| FAC4304D | 4 | ±0.20 | 0.35 | 0.3 | 1.2 | 1.2 | 1.2 |
| FAC4305D | 5 | ±0.20 | 0.35 | 0.25 | 1.2 | 1.2 | 1.3 |
| FAC4306D | 6 | ±0.15 | 0.25 | 0.25 | 1.25 | 1.3 | 1.3 |
| FAC4307D | 7 | ±0.15 | 0.25 | 0.25 | 1.25 | 1.35 | 1.35 |
| FAC4308D | 8 | ±0.15 | 0.25 | 0.25 | 1.25 | 1.35 | 1.35 |
| FAC4309D | 9 | ±0.15 | 0.2 | 0.15 | 1.3 | 1.35 | 1.4 |
| FAC4310D | 10 | ±0.35 | 0.45 | 0.65 | 1.3 | 1.35 | 1.4 |
| FAC4312D | 12 | ±0.25 | 0.35 | 0.55 | 1.2 | 1.3 | 1.3 |
| FAC4315D | 15 | ±0.40 | 0.5 | 0.7 | 1.25 | 1.3 | 1.3 |
| FAC4320D | 20 | ±0.25 | 0.45 | 0.4 | 1.1 | 1.2 | 1.45 |
| FAC4325D | 25 | ±0.85 | 1 | 0.6 | 1.1 | 1.2 | 1.45 |
| FAC4330D | 30 | ±0.30 | 0.35 | 1 | 1.15 | 1.2 | 1.4 |

同轴固定衰减器 DC~40GHz



Features

- 工作频率: DC-40GHz
- 衰减量: 0~20dB
- 功率: 2W
- 接头: 2.92mm
- 衰减量精度高
- 驻波比小
- 不锈钢外壳
- 陶瓷芯片
- 高RF性能,价格极具竞争力

Applications

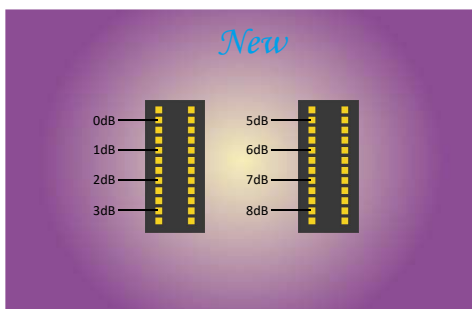
- 通信
- 雷达
- 微波测试
- 实验室

| 型号 | 衰减量 (dB) | 衰减精度(典型值)(dB) | | VSWR:1 (典型值) |
|---------|----------|---------------|--|--------------|
| | | DC~40GHz | | DC~40GHz |
| FAT4001 | 1 | ±0.20 | | 1.35 |
| FAT4002 | 2 | ±0.20 | | 1.35 |
| FAT4003 | 3 | ±0.20 | | 1.35 |
| FAT4005 | 5 | ±0.30 | | 1.35 |
| FAT4006 | 6 | ±0.30 | | 1.35 |
| FAT4008 | 8 | ±0.30 | | 1.35 |
| FAT4009 | 9 | ±0.30 | | 1.35 |
| FAT4010 | 10 | ±0.35 | | 1.35 |
| FAT4012 | 12 | ±0.35 | | 1.35 |
| FAT4015 | 15 | ±0.40 | | 1.35 |
| FAT4020 | 20 | ±0.50 | | 1.35 |

size for SMA 0-40(dB)

● Variable Attenuator Die

New 可变衰减器组合 集成电路版图设计知识产权



Features

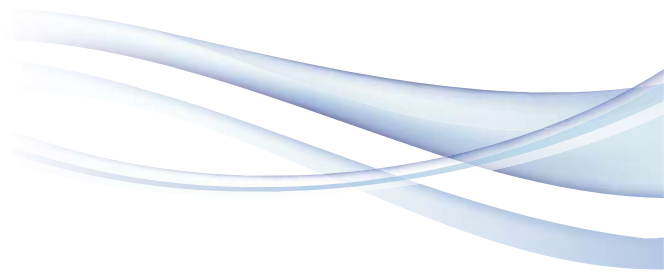
- Adopting advance GaAs technology
- Excellent attenuation accuracy & phase balance
- High ESD level
- Low VSWR
- Die Package

| Part No. | Attenuation | Freq. Range (MHz) fL-fU | Attenuation Accuracy (dB) | | | Input Return Loss(dB) | | | Output Return Loss(dB) | | |
|--------------|-------------|-------------------------|---------------------------|-----------|--------|-----------------------|-----------|--------|------------------------|-----------|--------|
| | | | (Min.) | (typical) | (Max.) | (Min.) | (typical) | (Max.) | (Min.) | (typical) | (Max.) |
| FAC1368C-150 | 0/1/2/3 | DC-26.5GHz | 0 | 0.2 | 0.3 | | -30 | -25 | | -30 | -25 |
| | | 26.5GHz-43.5GHz | 0.3 | 0.35 | 0.4 | | -25 | -20 | | -25 | -20 |
| FAC1368C-150 | 5/6/7/8 | DC-26.5GHz | 0 | 0.2 | 0.3 | | -25 | -20 | | -25 | -20 |
| | | 26.5GHz-43.5GHz | 0 | 0.2 | 0.3 | | -20 | -17 | | -20 | -17 |

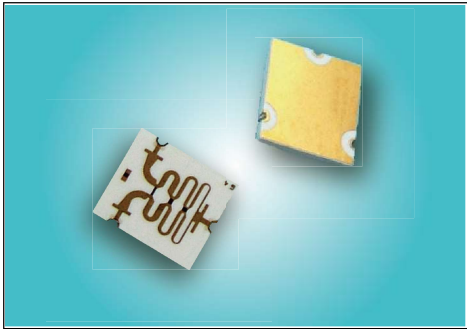
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New 微波宽带二路/四路功分器



Features

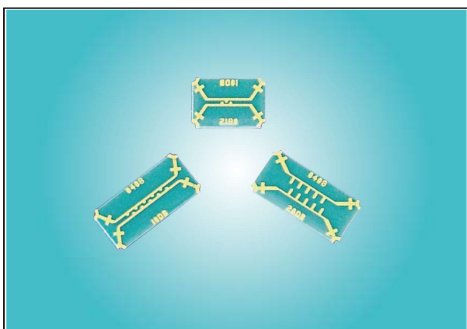
- Broad Band 6 to 32 GHz Performance
- 0.7 dB Typical Insertion Loss
- 20dB Typical Isolation and Return Loss
- Excellent Phase and Amplitude Balance
- Compact Solder Surface Mount Package
- Excellent directivity
- Broad frequency coverage

Applications

- Balanced amplifiers
- Modulators
- Point to Point

| Part No. | Freq.Range (GHz) | Power as a Splitter (W) | Package Size(mm) | Insertion loss (dB) | Amplitude Balance (dB) | Phase Balance(deg) | Isolation (dB) | Return Loss (dB) | Nominal Power Splitting (dB) |
|-------------|------------------|-------------------------|------------------|---------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| YT-PDW05758 | 6~18 | 5 | 4.7X4.06 | 0.7 | ±0.25 | ±3 | 20 | 20 | 3 |
| YT-PDW06089 | 6~18 | 5 | 6.35X7.62 | 1.0 | ±0.5 | ±3 | 14 | 14 | 6 |
| YT-PDW06984 | 25~32 | 5 | 2.16X2.41 | 0.7 | ±0.25 | ±5 | 14 | 14 | 3 |
| YT-PDW07069 | 24~32 | 5 | 3.56X4.32 | 1.0 | ±0.5 | ±6 | 10 | 10 | 6 |

New 微波宽带定向耦合器



Features :

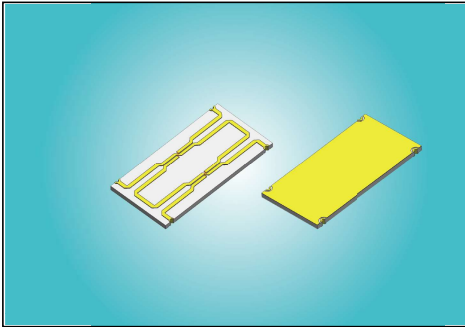
- Small Size
- Fully Shielded Component
- Solder Surface Mount Package
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55 C to +125 C
- Characteristic Impedance: 50Ω

Applications

- Balanced amplifiers
- Modulators
- Point to Point

| Part No. | Freq.Range (GHz) fL- fU | Power (W) | Size LxW (mm) | Return (dB) | Insertion Loss (dB) | Directivity (dB) | Mean Coupling (dB) |
|-------------|-------------------------|-----------|---------------|-------------|---------------------|------------------|--------------------|
| YT-FPC06719 | 6 ~ 18 | 5 | 6.477x2.54 | 18 | 1.0 | 10 | 10 ~11.5 |
| YT-FPC06913 | 6 ~ 18 | 5 | 4.572x2.794 | 15 | 1.0 | 10 | 20 ~21.5 |
| YT-FPC07181 | 20 ~ 40 | 5 | 1.651x1.27 | 14 | 0.4 | 14 | 18.5 ~21.5 |
| YT-FPC07802 | DC ~ 40 | 5 | 1.52x2.24 | 12 | 2.5 | / | 30±3 |
| YT-FPC07803 | DC ~ 40 | 5 | 1.52x2.24 | 12 | 3.0 | / | 20±3 |

微波宽带3dB90°电桥

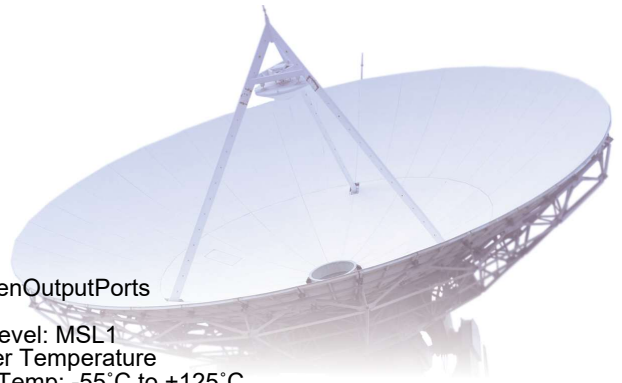


Features

- Small Size
- 90°PhaseDelta between Output Ports
- >50W Power Handling
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω
- Solder Surface Mount and Wire Bond Package

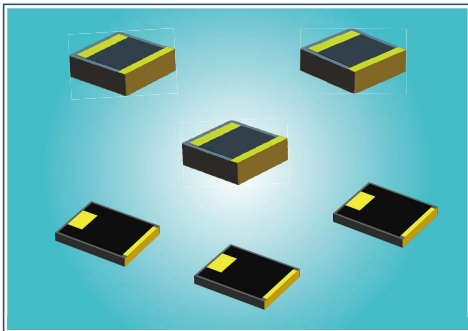
Applications

- Handheld satellite communication equipment
- Helical Antenna receiving unit
- Phase shifter



| Part No. | Freq. Range (GHz) fL- fU | Power (W) | Size L×W (mm) | Return Loss (dB) | Insertion Loss (dB) | Amplitude Balance (dB) | Isolation (dB) | Package |
|-------------|--------------------------|-----------|---------------|------------------|---------------------|------------------------|----------------|---------|
| YT-FHC09096 | 4~8 | >50 | 7.62×3.81 | 20 | 0.35 | 0.4 | 22 | SMD&WB |
| YT-FHC09097 | 4~8 | >50 | 17.78×6.604 | 16.5 | 1.0 | 0.2 | 17 | SMD&WB |
| YT-FHC10288 | 6~12 | >50 | 12.7×6.35 | 16.5 | 1.0 | 0.3 | 17 | SMD&WB |
| YT-FHC10290 | 10~20 | >50 | 7.62×6.35 | 16.5 | 0.8 | 0.2 | 20 | SMD&WB |
| YT-FHC10292 | 6~18 | >50 | 8.89×6.35 | 16.5 | 0.8 | 0.4 | 20 | SMD&WB |

New 金刚石负载 (替换EMC)



CVD Diamond Chip Terminations offer a unique combination of extreme high power ratings in very small packages. These terminations may be used in applications up to 30 GHz and are ideal for applications with requirements for high power capability, broad frequency response, small footprint and light weight. The terminations are manufactured using all thin film construction and have a gold finish that it both wire bondable and solderable. This total thin film construction also makes them ideal for peak power applications. Select from tape and reel, bulk, or waffle packaging. These products are also lead free, RoHS compliant and S-level approved.

Features

- Small Size - Light Weight
- Highest Thermal Performance Possible
- Excellent Peak Power Capability
- Rugged Passivated TaN Film
- Moisture Resistant
- Pure Gold input Pads
- Wire Bondable or Solderable
- High Power

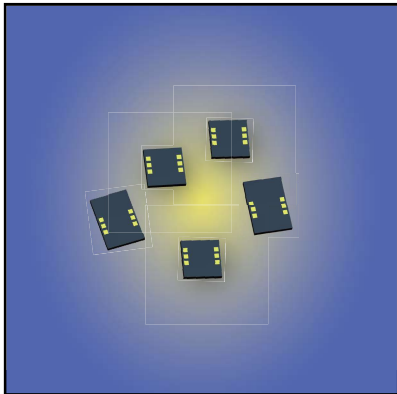
Applications

- Broadcast
- Higher Power Filters
- High Power Amplifiers
- Instrumentation
- Isolators
- Military
- Satellite Communications
- Phased Array Radar

| Part No. | Nominal Impedance | Frequency Range | Input Power CW | VSWR (Max.) | SIZE(mm) |
|----------|-------------------|-----------------|----------------|-------------|-----------|
| TD0402 | 50Ω | DC~26.5GHz | 10 Watts | 1.95 | 1.14*0.64 |
| TD0505 | 50Ω | DC~20GHz | 50 Watts | 1.6 | 1.4*1.4 |
| TD0603 | 50Ω | DC~28GHz | 50Watts | 1.6 | 1.68*0.89 |
| TD1310 | 50Ω | DC~14GHz | 125 Watts | 1.4 | 3.33*2.67 |
| TD2010 | 50Ω | DC~12GHz | 300 Watts | 1.4 | 5.21*2.67 |

均衡器芯片 (替换MINI)

集成电路布图设计知识产权



产品特点

- 采用国际先进的GaAs工艺制作
- 低驻波比
- 均衡范围大
- 裸片无封装

产品应用

- 宽带微波模块
- 雷达
- 电子对抗EW, ECM, ECCM
- T/R 组件
- 均衡器被用作电路补偿, 已修正电路中其他元件
- 如放大器阶段造成的损失

| 型号 | 频率范围 (GHz) fL- fU | 均衡量 (dB) | 输入功率 (W) | 插入损耗 (dB) | 输入驻波比 (:1) | 输出驻波比 (:1) | 阻抗 (ohm) |
|---------------|----------------------|----------|----------|-------------|------------|------------|----------|
| E6003C-1323 | 1.3~2.3 | 3.3 | 1 | 0.2 @2.3GHz | 1.2 | 1.2 | 50 |
| E6008C-1418A | 14~18 | 2 | 1 | 0.65 @18GHz | 1.2 | 1.2 | 50 |
| E6014C-218 | 2~18 | 4 | 1 | 0.7 @18GHz | 1.3 | 1.3 | 50 |
| E6018C-212 | 2~12 | 4 | 1 | 0.5 @12GHz | 1.35 | 1.35 | 50 |
| EQYT-10-24-D | DC~20 | 10 | 2 | 1.1 | 1.28 | 1.28 | 50 |
| EQYT-10-453-D | DC~45 | 10.2 | 0.63 | 1.8 | 1.22 | 1.22 | 50 |
| EQYT-10-63-D | DC~6 | 10.2 | 1.26 | 1 | 1.12 | 1.12 | 50 |
| EQYT-12-24-D | DC~20 | 11.9 | 1 | 1.5 | 1.17 | 1.17 | 50 |
| EQYT-15-24-D | 6~20 | 15.7 | 1.26 | 1.3 | 1.2 | 1.2 | 50 |
| EQYT-1-63-D | DC~6 | 1.2 | 1.26 | 0.4 | 1.24 | 1.24 | 50 |
| EQYT-18-24-D | 6~18 | 18 | 2 | 2.2 | 1.22 | 1.22 | 50 |
| EQYT-2-24-D | DC~20 | 2.1 | 1.26 | 0.9 | 1.26 | 1.26 | 50 |
| EQYT-2-63-D | DC~6 | 2.1 | 1.26 | 0.4 | 1.29 | 1.29 | 50 |
| EQYT-3-24-D | DC~20 | 3 | 2.55 | 0.8 | 1.24 | 1.24 | 50 |
| EQYT-3-283-D | DC~28 | 3.4 | 1.26 | 0.6 | 1.15 | 1.15 | 50 |
| EQYT-3-453-D | DC~45 | 3.5 | 1 | 1.1 | 1.22 | 1.22 | 50 |
| EQYT-3-63-D | DC~6 | 3.2 | 1.26 | 0.6 | 1.29 | 1.29 | 50 |
| EQYT-4-283-D | DC~28 | 4.3 | 1 | 0.6 | 1.14 | 1.14 | 50 |
| EQYT-4-453-D | DC~45 | 4.5 | 0.79 | 1.1 | 1.23 | 1.23 | 50 |
| EQYT-4-63-D | DC~6 | 4.2 | 1.26 | 0.6 | 1.25 | 1.25 | 50 |
| EQYT-5-24-D | DC~20 | 4.9 | 2.55 | 0.8 | 1.34 | 1.34 | 50 |
| EQYT-5-283-D | DC~28 | 5.9 | 1 | 0.6 | 1.12 | 1.12 | 50 |
| EQYT-5-453-D | DC~45 | 5.5 | 0.63 | 1.1 | 1.26 | 1.26 | 50 |
| EQYT-5-63-D | DC~6 | 5 | 1.26 | 1 | 1.24 | 1.24 | 50 |
| EQYT-6-24-D | DC~20 | 6.1 | 1.26 | 0.7 | 1.3 | 1.3 | 50 |
| EQYT-6-283-D | DC~28 | 6.6 | 1 | 0.6 | 1.15 | 1.15 | 50 |
| EQYT-6-453-D | DC~45 | 6.5 | 0.63 | 1.1 | 1.25 | 1.25 | 50 |
| EQYT-6-63-D | DC~6 | 6.5 | 1.59 | 0.5 | 1.2 | 1.2 | 50 |
| EQYT-7-453-D | DC~45 | 7.4 | 0.5 | 1.3 | 1.26 | 1.26 | 50 |
| EQYT-8-24-D | DC~20 | 8 | 2.55 | 1.1 | 1.31 | 1.31 | 50 |
| EQYT-8-453-D | DC~45 | 8.2 | 0.5 | 1.2 | 1.14 | 1.14 | 50 |
| EQYT-8-63-D | DC~6 | 8.2 | 1.26 | 0.5 | 1.21 | 1.21 | 50 |
| EQYT-9-453-D | DC~45 | 9 | 0.63 | 1.6 | 1.21 | 1.21 | 50 |

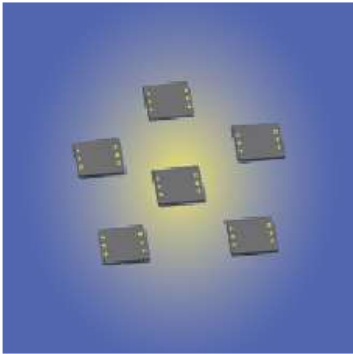
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www.yantel-corp.com



定向耦合器芯片（砷化镓工艺）



特点：

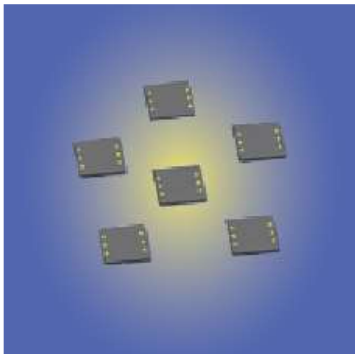
- 采用国际先进的GaAs工艺制作
- 低驻波比
- 低损耗
- 定向度好

应用：

- 宽带微波模块
- 雷达
- T/R 组件
- 卫星通信

| Model Number | Freq. (GHz) | | VSWR(:1), Typ. | Isolation(dB) | Insertion Loss (dB) | Mean Coupling(dB) | Size(mm) |
|--------------|-------------|----|----------------|---------------|---------------------|-------------------|--------------|
| DC26IC10 | 2 | 6 | <1.4 | 12 | <1 | 10±1 | 4.0X1.3 X0.1 |
| DC618IC10 | 6 | 18 | <1.4 | 12 | <1 | 10±1 | 2.0X1.3 X0.1 |
| DC1840IC10 | 18 | 40 | <1.4 | 10 | <1 | 10±1 | 2.0X1.3 X0.1 |
| DC26IC15 | 2 | 6 | <1.4 | 12 | <0.6 | 15±1.5 | 4.0X1.3 X0.1 |
| DC618IC15 | 6 | 18 | <1.4 | 12 | <0.6 | 15±1.5 | 2.0X1.3 X0.1 |
| DC1840IC15 | 18 | 40 | <1.4 | 10 | <0.6 | 15±1.5 | 2.0X1.3 X0.1 |
| DC26IC20 | 2 | 6 | <1.4 | 12 | <0.6 | 20±2 | 4.0X1.3 X0.1 |
| DC618IC20 | 6 | 18 | <1.4 | 12 | <0.6 | 20±2 | 2.0X1.3 X0.1 |
| DC1840IC20 | 18 | 40 | <1.4 | 10 | <0.6 | 20±2 | 2.0X1.3 X0.1 |

3dB 90°电桥芯片（砷化镓工艺）



特点：

- 采用国际先进的GaAs工艺制作
- 低驻波比
- 低损耗
- 幅度不平衡度小

应用：

- 宽带微波模块
- 雷达
- T/R 组件
- 移相器网络

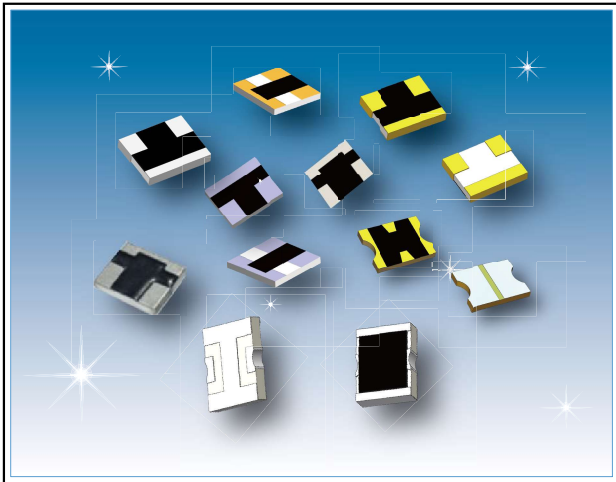
| Model Number | Freq. (GHz) | | VSWR(:1) Typ. | Isolation(dB) | Insertion Loss(dB) above 3 dB, Typ. | Amplitude Unbalance (dB), Typ. | Size(mm) |
|--------------|-------------|----|---------------|---------------|-------------------------------------|--------------------------------|--------------|
| HC26IC03 | 2 | 6 | <1.4 | 20 | <0.35 | <0.5 | 4.0X1.5X0.1 |
| HC618IC03 | 6 | 18 | <1.4 | 15 | <0.35 | <0.5 | 2.6X1.3 X0.1 |
| HC1840IC03 | 18 | 40 | <1.4 | 15 | <0.35 | <0.5 | 2.2X1.3 X0.1 |

裸片使用注意事项：

- 在净化环境装配使用。
- GaAs材料很脆，芯片表面很容易受损伤(不要碰触表面)，使用时必须小心。
- 输入输出用2根键合线(直径25um金丝)，键合线尽量短，不要长于300um。
- 用80/20金锡烧结，烧结温度不要超过300°C，烧结时间尽可能短，不要超过30秒。
- 本品属于静电敏感器件，储存和使用时注意防静电。
- 干燥、氮气环境储存。
- 不要试图用干或湿化学方法清洁芯片表面。
- 有问题请与供货商联系。

Fixed Attenuator Chip

固定衰减片



Features

- Frequency range: DC to 3GHz, DC to 6GHz, DC to 10GHz, DC to 12.4GHz, DC to 18GHz, DC to 26.5GHz
- Laser trimmed
- Material in Al₂O₃, BeO or AlN
- Attenuation: 1dB to 30dB
- Input power: 100mW~400W
- High attenuation accuracy
- Low VSWR
- Temperature stable -55°C to +150°C
- Power: 100mW、200mW、2W、5W

Applications

- Communications
- Point to Point base station
- Digital transmission
- Radar
- Broadcast television

Specifications

| DC to 6GHz, 2W, 5W, 50Ω, thick film, size(mm): 3.10×3.70×0.53 Al ₂ O ₃ (2w), BeO(5w) or AlN(5w) *:A,Planar *:B,Triple wrap | | | | | | | | | |
|--|------------------|----------------------------------|--------|--------|------------------|--------|--------|--|--|
| Part No. | Attenuation (dB) | Typical Attenuation Accuracy(dB) | | | VSWR:1 (typical) | | | | |
| | | DC~2GHz | 2~4GHz | 4~6GHz | DC~2GHz | 2~4GHz | 4~6GHz | | |
| FAC0601* | 1 | ±0.2 | +0.3 | +0.5 | 1.10 | 1.20 | 1.30 | | |
| FAC0602* | 2 | ±0.2 | +0.5 | +0.8 | 1.10 | 1.20 | 1.30 | | |
| FAC0603* | 3 | ±0.2 | +0.5 | +0.8 | 1.10 | 1.20 | 1.30 | | |
| FAC0606* | 6 | ±0.2 | +0.5 | +0.8 | 1.10 | 1.20 | 1.30 | | |
| FAC0610* | 10 | ±0.2 | +0.3 | +0.5 | 1.10 | 1.20 | 1.30 | | |

| DC to 8GHz, 0.75W~5W, 50Ω, thin film, size(mm): 1.52×1.90×0.41 | | | | | |
|--|------------------|----------------------------------|--------|------------------|--------|
| Part No. | Attenuation (dB) | Typical Attenuation Accuracy(dB) | | VSWR:1 (typical) | |
| | | DC~4GHz | 4~8GHz | DC~4GHz | 4~8GHz |
| FAC0801* | 1 | ±0.5 | +0.5 | 1.25 | 1.35 |
| FAC0802* | 2 | ±0.5 | +0.5 | 1.25 | 1.35 |
| FAC0803* | 3 | ±0.5 | +0.5 | 1.25 | 1.35 |
| FAC0806* | 6 | ±0.5 | +0.5 | 1.25 | 1.35 |
| FAC0810* | 10 | ±0.5 | +0.5 | 1.25 | 1.35 |

| DC to 10GHz, 100mW, 50Ω, thick film, size(mm): 1.25×2.00×0.45 | | | | | | | | | |
|---|------------------|----------------------------------|--------|--------|---------|------------------|--------|--------|---------|
| Part No. | Attenuation (dB) | Typical Attenuation Accuracy(dB) | | | | VSWR:1 (typical) | | | |
| | | DC~4GHz | 4~6GHz | 6~8GHz | 8~10GHz | DC~4GHz | 4~6GHz | 6~8GHz | 8~10GHz |
| FAC1001 | 1 | ±0.3 | +0.5 | +0.6 | +1.0 | 1.15 | 1.20 | 1.25 | 1.40 |
| FAC1002 | 2 | ±0.3 | +0.5 | +0.6 | +1.0 | 1.15 | 1.20 | 1.25 | 1.40 |
| FAC1003 | 3 | ±0.3 | +0.5 | +0.6 | +1.0 | 1.15 | 1.20 | 1.25 | 1.40 |
| FAC1006 | 6 | ±0.3 | +0.5 | +0.6 | +1.0 | 1.15 | 1.20 | 1.25 | 1.40 |
| FAC1010 | 10 | ±0.3 | +0.6 | +0.7 | +1.0 | 1.15 | 1.20 | 1.25 | 1.40 |

| DC to 12.4GHz, 300mW, 50Ω, thick film, size(mm): 1.52×1.90×0.28 * : A,Planar * : B,Triple wrap | | | | | | | | | |
|--|------------------|----------------------------------|--------|----------|-------------|------------------|--------|----------|-------------|
| Part No. | Attenuation (dB) | Typical Attenuation Accuracy(dB) | | | | VSWR:1 (typical) | | | |
| | | DC~3GHz | 3~6GHz | 6~8.5GHz | 8.5~12.4GHz | DC~3GHz | 3~6GHz | 6~8.5GHz | 8.5~12.4GHz |
| FAC1201* | 1 | ±0.3 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1202* | 2 | ±0.3 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1203* | 3 | ±0.3 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1206* | 6 | ±0.3 | +0.5 | +0.75 | +1.0 | 1.05 | 1.15 | 1.25 | 1.40 |
| FAC1210* | 10 | ±0.3 | +0.5 | +0.75 | +1.0 | 1.05 | 1.20 | 1.25 | 1.40 |

Fixed Attenuator Chip

固定衰减片

DC to 12.4GHz, 2W, 50Ω, thin film, gold terminal, wrap ground terminal, size(mm): 3.10×3.68×0.41

*** : A, for wire-bonding * : B, for lead free reflow * : C, for triple wrap**

| Part No. | Attenuation (dB) | Typical Attenuation Accuracy(dB) | | | | VSWR:1 (typical) | | | |
|-----------|------------------|----------------------------------|--------|----------|-------------|------------------|--------|----------|-------------|
| | | DC~3GHz | 3~6GHz | 6~8.5GHz | 8.5~12.4GHz | DC~3GHz | 3~6GHz | 6~8.5GHz | 8.5~12.4GHz |
| FAC1201P* | 1 | ±0.3 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1202P* | 2 | ±0.3 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1203P* | 3 | ±0.3 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1206P* | 6 | ±0.3 | +0.5 | +0.75 | +1.0 | 1.05 | 1.15 | 1.25 | 1.40 |
| FAC1210P* | 10 | ±0.3 | +0.5 | +0.75 | +1.0 | 1.05 | 1.20 | 1.25 | 1.40 |

DC to 18GHz, 200mW, 50Ω, thin film, gold terminal, wrap ground terminal, size(mm): 1.52×1.90×0.41

*** : A, for wire-bonding * : B, for lead free reflow * : C, for triple wrap**

| Part No. | Attenuation (dB) | Typical Attenuation Accuracy(dB) | | | | VSWR:1 (typical) | | | |
|----------|------------------|----------------------------------|--------|-----------|------------|------------------|--------|-----------|------------|
| | | DC ~ 4GHz | 4~8GHz | 8~12.4GHz | 12.4~18GHz | DC~4GHz | 4~8GHz | 8~12.4GHz | 12.4~18GHz |
| FAC1801* | 1 | ±0.5 | +0.5 | +0.5 | +0.8 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1802* | 2 | ±0.5 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1803* | 3 | ±0.5 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1806* | 6 | ±0.5 | +0.5 | +0.75 | +1.0 | 1.05 | 1.15 | 1.25 | 1.40 |
| FAC1810* | 10 | ±0.5 | +0.5 | +0.75 | +1.0 | 1.05 | 1.20 | 1.25 | 1.40 |

DC to 18GHz, 2W, 50Ω, thin film, gold terminal, wrap ground terminal, size(mm): 3.10×3.68×0.41

*** : A, for wire-bonding * : B, for lead free reflow**

| Part No. | Attenuation (dB) | Typical Attenuation Accuracy(dB) | | | | VSWR:1 (typical) | | | |
|-----------|------------------|----------------------------------|--------|-----------|------------|------------------|--------|-----------|------------|
| | | DC ~ 4GHz | 4~8GHz | 8~12.4GHz | 12.4~18GHz | DC~4GHz | 4~8GHz | 8~12.4GHz | 12.4~18GHz |
| FAC1801P* | 1 | ±0.5 | +0.5 | +0.5 | +0.8 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1802P* | 2 | ±0.5 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1803P* | 3 | ±0.5 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC1806P* | 6 | ±0.5 | +0.5 | +0.75 | +1.0 | 1.05 | 1.15 | 1.25 | 1.40 |
| FAC1810P* | 10 | ±0.5 | +0.5 | +0.75 | +1.0 | 1.05 | 1.20 | 1.25 | 1.40 |

DC to 26.5GHz, 200mW, 50Ω, thin film, gold terminal, wrap ground terminal, size(mm): 1.52×1.90×0.28

*** : A, for wire-bonding * : B, for lead free reflow**

| Part No. | Attenuation (dB) | Typical Attenuation Accuracy(dB) | | | | VSWR:1 (typical) | | | |
|----------|------------------|----------------------------------|-------------|------------|------------|------------------|-------------|------------|------------|
| | | DC~8.5GHz | 8.5~12.4GHz | 12.4~18GHz | 18~26.5GHz | DC~8.5GHz | 8.5~12.4GHz | 12.4~18GHz | 18~26.5GHz |
| FAC2601* | 1 | ±0.5 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC2602* | 2 | ±0.5 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC2603* | 3 | ±0.5 | +0.5 | +0.5 | +1.0 | 1.05 | 1.10 | 1.15 | 1.40 |
| FAC2606* | 6 | ±0.5 | +0.5 | +0.75 | +1.0 | 1.05 | 1.15 | 1.25 | 1.40 |
| FAC2610* | 10 | ±0.5 | +0.5 | +0.75 | +1.0 | 1.05 | 1.20 | 1.25 | 1.40 |

16 to 36GHz, 100mW,50Ω,for wire-bonding,Size(mm) : 3.05×1.65×0.28(mm) ;

| Part No. | Attenuation (dB) | Typical Attenuation Accuracy(dB) | | | | VSWR:1 (typical) | | | |
|----------|------------------|----------------------------------|--|--|--|------------------|--|--|--|
| | | 16~36GHz | | | | 16~36GHz | | | |
| FAC3601* | 1 | ±1.0 | | | | 1.30 | | | |
| FAC3602* | 2 | ±1.0 | | | | 1.30 | | | |
| FAC3603* | 3 | ±1.0 | | | | 1.30 | | | |
| FAC3606* | 6 | ±1.0 | | | | 1.35 | | | |
| FAC3610* | 10 | ±1.0 | | | | 1.35 | | | |

36 to 50GHz, 200mW,50Ω,for lead free reflow,Size(mm) : 3.05×1.65×0.28(mm) ;

| Part No. | Attenuation (dB) | Typical Attenuation Accuracy(dB) | | | | VSWR:1 (typical) | | | |
|----------|------------------|----------------------------------|--|--|--|------------------|--|--|--|
| | | 36~50GHz | | | | 36~50GHz | | | |
| FAC5001* | 1 | ±1.0 | | | | 1.30 | | | |
| FAC5002* | 2 | ±1.0 | | | | 1.30 | | | |
| FAC5003* | 3 | ±1.0 | | | | 1.30 | | | |
| FAC5006* | 6 | ±1.0 | | | | 1.35 | | | |
| FAC5010* | 10 | ±1.0 | | | | 1.35 | | | |

Fixed Attenuator

固定衰减器

Patent Product

China Patent No.: CN 2009 1 0006333

USA Patent No.: US 8,100,721 B2



Features

- Frequency range from DC to 18GHz
- Attenuation from 1dB to 40dB
- Input power: 2W, 5W, 25W, 50W, 80W, 100W, 150W
- High attenuation accuracy
- Low VSWR
- Stainless steel or brass
- Ceramic chip
- Low cost-high performance

Applications

- Communications
- Digital transmission
- Radar
- Broadcast television
- Test

Model Description

FATXXXXXXXX

- X – Material: (no code)=Brass, (S)=Stainless steel
- X – power handling: 2W, 5W, 25W, 50W, 100W
- X – connector type: B-SMB, S-SMA, Q-QMA, M-MCX, C-MMCX, B-BNC or N- N type connector
- XX – attenuation: **dB
- XX – frequency range: 06 represents DC to 6GHz
18 represents DC to 18GHz

suffix “M” refers to the miniature size type

Example: Model No. FAT0603S2 is fixed attenuator DC-6GHz, 3dB, SMA type, 2W, Brass.

Specifications

● DC to 6GHz, 2 Watts or 5 Watts, SMA(S), N type(N), QMA(Q), MCX(M), MMCX(C), BNC(B), Coaxial Fixed Attenuator

| Model | Freq. Range (GHz) f_L-f_U | Attenuation (dB) | Attenuation Accuracy (dB) | | VSWR (:1) | | | | Power (Watt) |
|------------|-----------------------------------|---------------------|------------------------------|----------|-----------|----------|----------|-----------|-----------------|
| | | | DC - 3GHz | 3 - 6GHz | DC - 2GHz | 2 - 4GHz | 4 - 6GHz | DC - 6GHz | |
| | | | | | Typical | Typical | Typical | Max. | |
| FAT0601*** | DC-6 | 1 | ±0.45 | ±0.45 | 1.10 | 1.15 | 1.20 | 1.30 | 2 |
| FAT0602*** | | 2 | ±0.35 | ±0.35 | 1.10 | 1.15 | 1.20 | 1.30 | |
| FAT0603*** | | 3 | ±0.35 | ±0.35 | 1.10 | 1.15 | 1.20 | 1.30 | |
| FAT0604*** | | 4 | ±0.35 | ±0.35 | 1.10 | 1.15 | 1.20 | 1.30 | |
| FAT0605*** | | 5 | ±0.35 | ±0.35 | 1.10 | 1.15 | 1.20 | 1.30 | |
| FAT0606*** | | 6 | ±0.35 | ±0.35 | 1.10 | 1.15 | 1.20 | 1.30 | |
| FAT0609*** | | 9 | ±0.60 | ±0.60 | 1.10 | 1.15 | 1.20 | 1.30 | |
| FAT0610*** | | 10 | ±0.60 | ±0.60 | 1.10 | 1.15 | 1.20 | 1.30 | |
| FAT0615*** | | 15 | ±0.70 | ±0.70 | 1.10 | 1.15 | 1.20 | 1.30 | |
| FAT0620*** | | 20 | ±0.60 | ±0.60 | 1.10 | 1.15 | 1.20 | 1.35 | |
| FAT0630*** | | 30 | ±2.00 | ±2.00 | 1.10 | 1.15 | 1.20 | 1.35 | |

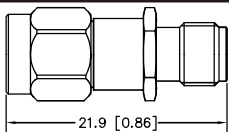
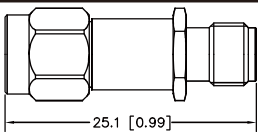
DC-6GHz Outline Dimensions (unit: mm&inch)

| size for SMA 1-12(dB) | size for SMA 15-40(dB) | size for N 1-12(dB) | size for N 15-40(dB) |
|-----------------------|------------------------|---------------------|----------------------|
| | | | |

● DC to 18GHz, 2 Watts, SMA(S) type Miniature Size Coaxial Fixed Attenuator

| Model | Freq. Range (GHz) f_L - f_U | Attenuation (dB) | Attenuation Accuracy (dB) DC to 18GHz | VSWR (:1) | | | | Power (Watt) |
|-------------|------------------------------------|------------------|--|-----------|-----------|-----------|------------|--------------|
| | | | | DC - 6GHz | 6 - 12GHz | 12- 18GHz | DC - 18GHz | |
| | | | | Typical | Typical | Typical | Max. | |
| FAT1801S2SM | DC-18 | 1 | ±0.40 | 1.15 | 1.25 | 1.30 | 1.35 | 2 |
| FAT1802S2SM | | 2 | ±0.40 | 1.15 | 1.25 | 1.30 | 1.35 | |
| FAT1803S2SM | | 3 | ±0.40 | 1.15 | 1.25 | 1.30 | 1.35 | |
| FAT1804S2SM | | 4 | ±0.40 | 1.15 | 1.25 | 1.30 | 1.35 | |
| FAT1805S2SM | | 5 | ±0.40 | 1.15 | 1.25 | 1.30 | 1.35 | |
| FAT1806S2SM | | 6 | ±0.40 | 1.15 | 1.25 | 1.30 | 1.35 | |
| FAT1808S2SM | | 8 | ±0.60 | 1.15 | 1.20 | 1.30 | 1.35 | |
| FAT1809S2SM | | 9 | ±0.60 | 1.15 | 1.20 | 1.30 | 1.35 | |
| FAT1810S2SM | | 10 | ±0.60 | 1.15 | 1.20 | 1.30 | 1.35 | |
| FAT1815S2SM | | 15 | ±0.60 | 1.15 | 1.20 | 1.30 | 1.35 | |
| FAT1820S2SM | | 20 | ±0.80 | 1.15 | 1.25 | 1.30 | 1.35 | |
| FAT1830S2SM | | 30 | ±0.85 | 1.15 | 1.25 | 1.30 | 1.35 | |
| FAT1840S2SM | | 40 | ±1.50 | 1.15 | 1.25 | 1.30 | 1.35 | |

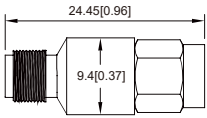
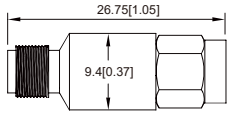
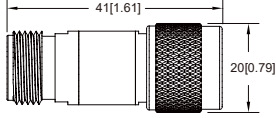
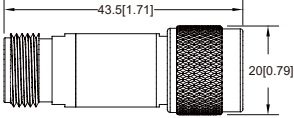
DC-18GHz Outline Dimensions (unit: mm&inch)

| size for SMA 1-12(dB) | size for SMA 15-40(dB) |
|---|---|
|  |  |

● DC to 18GHz, 2 Watts or 5 Watts, SMA(S),N type(N), Coaxial Fixed Attenuator

| Model | Freq. Range (GHz) f_L - f_U | Attenuation (dB) | Attenuation Accuracy (dB) DC to 18GHz | VSWR (:1) | | | | Power (Watt) |
|------------|------------------------------------|------------------|--|-----------|-----------|-----------|------------|--------------|
| | | | | DC - 8GHz | 8 - 12GHz | 12- 18GHz | DC - 18GHz | |
| | | | | Typical | Typical | Typical | Max. | |
| FAT1803*** | DC-18 | 3 | ±0.3 | 1.15 | 1.20 | 1.30 | 1.50 | 2 |
| FAT1806*** | | 6 | ±0.5 | 1.15 | 1.20 | 1.30 | 1.50 | |
| FAT1810*** | | 10 | ±1.0 | 1.15 | 1.20 | 1.30 | 1.50 | |
| FAT1820*** | | 20 | ±1.2 | 1.15 | 1.20 | 1.30 | 1.50 | |
| FAT1830*** | | 30 | ±1.5 | 1.15 | 1.30 | 1.55 | 1.65 | |
| FAT1840*** | | 40 | ±1.5 | 1.15 | 1.30 | 1.55 | 1.65 | |

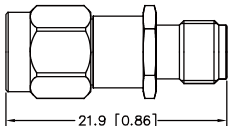
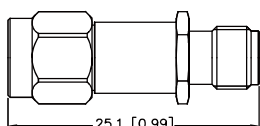
DC-18GHz Outline Dimensions (unit: mm&inch)

| size for SMA 1-12(dB) | size for SMA 15-40(dB) | size for N 1-12(dB) | size for N 15-40(dB) |
|---|---|--|---|
|  |  |  |  |

● DC to 26GHz, 2 Watts, SMA(S) type Miniature Size Coaxial Fixed Attenuator

| Model | Freq. Range (GHz) f_L - f_U | Attenuation (dB) | Attenuation Accuracy (dB) | VSWR (:1) | Power (Watt) |
|---------|------------------------------------|------------------|---------------------------|-----------|--------------|
| | | | DC - 26.5GHz | 2 - 4GHz | |
| | | | | Typical | |
| FAT2601 | DC-26 | 1 | ±0.20 | 1.35 | 2 |
| FAT2602 | | 2 | ±0.20 | 1.35 | |
| FAT2603 | | 3 | ±0.20 | 1.35 | |
| FAT2605 | | 5 | ±0.30 | 1.35 | |
| FAT2606 | | 6 | ±0.30 | 1.35 | |
| FAT2608 | | 8 | ±0.30 | 1.35 | |
| FAT2609 | | 9 | ±0.30 | 1.35 | |
| FAT2610 | | 10 | ±0.35 | 1.35 | |
| FAT2612 | | 12 | ±0.35 | 1.35 | |
| FAT2615 | | 15 | ±0.35 | 1.35 | |
| FAT2620 | | 20 | ±0.40 | 1.35 | |

DC-26GHz Outline Dimensions (unit: mm&inch)

| size for SMA 1-12(dB) | size for SMA 15-40(dB) |
|---|---|
|  |  |

● DC to 3GHz, 5 Watts or 25 Watts, N(N) type Coaxial Fixed Attenuator

| Model | Freq. Range (GHz) f_L - f_U | Attenuation (dB) | Attenuation Accuracy (dB) | VSWR (:1) | | | | Power (Watt) | |
|------------|------------------------------------|------------------|---------------------------|------------|-----------|-----------|-----------|--------------|------|
| | | | | DC to 3GHz | DC - 1GHz | DC - 2GHz | DC - 3GHz | | |
| | | | | | Typical | Typical | Typical | | Max. |
| FAT0340N5 | DC-3 | 40 | ±0.75 | 1.10 | 1.15 | 1.20 | 1.25 | 5 | |
| FAT0350N5 | | 50 | ±0.75 | 1.10 | 1.15 | 1.20 | 1.25 | | |
| FAT0360N5 | | 60 | ±0.75 | 1.10 | 1.15 | 1.20 | 1.25 | | |
| FAT0370N5 | | 70 | ±1.0 | 1.10 | 1.15 | 1.20 | 1.25 | | |
| FAT0380N5 | | 80 | ±1.0 | 1.10 | 1.15 | 1.20 | 1.25 | | |
| FAT0390N5 | | 90 | ±1.2 | 1.10 | 1.15 | 1.20 | 1.25 | | |
| FAT0303N25 | DC-3 | 3 | ±0.70 | 1.15 | 1.25 | 1.30 | 1.35 | 25 | |
| FAT0306N25 | | 6 | ±0.70 | 1.15 | 1.25 | 1.30 | 1.35 | | |
| FAT0310N25 | | 10 | ±0.70 | 1.15 | 1.25 | 1.30 | 1.35 | | |
| FAT0320N25 | | 20 | ±1.0 | 1.15 | 1.25 | 1.30 | 1.35 | | |
| FAT0330N25 | | 30 | ±1.0 | 1.15 | 1.25 | 1.30 | 1.35 | | |
| FAT0340N25 | | 40 | ±1.2 | 1.15 | 1.25 | 1.30 | 1.35 | | |

DC-3GHz 5W Outline Dimensions (unit: mm&inch)

DC-3GHz 25W Outline Dimensions (unit: mm&inch)

● DC to 3GHz, 50、80、100 or 150Watts, N(N) type Low PIM Coaxial Fixed Attenuator

| Model | Freq. Range (GHz) f_L - f_U | Attenuation (dB) | Attenuation Accuracy (dB) | VSWR (:1) | | | | Power (Watt) | |
|-------------|------------------------------------|------------------|---------------------------|------------|-----------|-----------|-----------|--------------|------|
| | | | | DC to 3GHz | DC - 1GHz | DC - 2GHz | DC - 3GHz | | |
| | | | | | Typical | Typical | Typical | | Max. |
| FAT0303N50 | DC-3 | 3 | ±0.50 | 1.10 | 1.20 | 1.25 | 1.30 | 50 | |
| FAT0306N50 | | 6 | ±0.50 | 1.10 | 1.20 | 1.25 | 1.30 | | |
| FAT0310N50 | | 10 | ±0.50 | 1.10 | 1.20 | 1.25 | 1.30 | | |
| FAT0320N50 | | 20 | ±0.50 | 1.10 | 1.20 | 1.25 | 1.30 | | |
| FAT0330N50 | | 30 | ±0.60 | 1.10 | 1.20 | 1.25 | 1.30 | | |
| FAT0340N50 | | 40 | ±0.60 | 1.10 | 1.20 | 1.25 | 1.30 | | |
| FAT0303N80 | DC-3 | 3 | ±0.60 | 1.10 | 1.20 | 1.25 | 1.30 | 80 | |
| FAT0306N80 | | 6 | ±0.60 | 1.10 | 1.20 | 1.25 | 1.30 | | |
| FAT0310N80 | | 10 | ±0.60 | 1.10 | 1.20 | 1.25 | 1.30 | | |
| FAT0320N80 | | 20 | ±1.0 | 1.15 | 1.25 | 1.30 | 1.35 | | |
| FAT0330N80 | | 30 | ±1.0 | 1.15 | 1.25 | 1.30 | 1.35 | | |
| FAT0340N80 | | 40 | ±1.0 | 1.15 | 1.25 | 1.30 | 1.35 | | |
| FAT0303N100 | DC-3 | 3 | ±0.65 | 1.10 | 1.20 | 1.25 | 1.30 | 100 | |
| FAT0306N100 | | 6 | ±0.65 | 1.10 | 1.20 | 1.25 | 1.30 | | |
| FAT0310N100 | | 10 | ±0.75 | 1.15 | 1.20 | 1.30 | 1.35 | | |
| FAT0320N100 | | 20 | ±0.75 | 1.15 | 1.20 | 1.30 | 1.35 | | |
| FAT0330N100 | | 30 | ±0.8 | 1.15 | 1.20 | 1.30 | 1.35 | | |
| FAT0340N100 | | 40 | ±1.0 | 1.15 | 1.20 | 1.30 | 1.35 | | |
| FAT0303N150 | DC-3 | 3 | ±0.65 | 1.10 | 1.20 | 1.25 | 1.30 | 150 | |
| FAT0306N150 | | 6 | ±0.65 | 1.10 | 1.20 | 1.25 | 1.30 | | |
| FAT0310N150 | | 10 | ±0.75 | 1.15 | 1.25 | 1.30 | 1.35 | | |
| FAT0320N150 | | 20 | ±0.75 | 1.15 | 1.25 | 1.30 | 1.35 | | |
| FAT0330N150 | | 30 | ±1.0 | 1.15 | 1.20 | 1.30 | 1.35 | | |
| FAT0340N150 | | 40 | ±1.0 | 1.15 | 1.25 | 1.30 | 1.35 | | |

DC-3GHz **50W** Outline Dimensions (unit: mm&inch)

DC-3GHz **80W** Outline Dimensions (unit: mm&inch)

DC-3GHz **100W** Outline Dimensions (unit: mm&inch)

DC-3GHz **150W** Outline Dimensions (unit: mm&inch)

Drum/Rotary Variable Attenuator

旋鼓/旋钮式可变衰减器

VAX Series (Step步进式) *New*



Features

- Input power: 2W,5W,10W
- Available in step adjusting
- Wide frequency range: DC ~6.0GHz
- Low VSWR, Low insertion loss
- Sealed structure moisture-proof & damp-proof, can be work outdoors in harsh condition
- Easy to operate, adjustment results visually readable
- Step series has locking devices within each attenuation, shock-proof capability
- Can reach over 5000 times adjustment.
- Easy to adjust, widely used in production line, or to be installed in the system & device for signal control

Applications

- DAS POI
- Indoor Repeater
- Wireless Signal Coverage
- RF Labs

Single-circle Drum-type step attenuator

| Model | Attenuation Range (dB) | Frequency Range | Step Value | VSWR (Max) | Nominal Impedance | Input Power CW |
|-----------|------------------------|-----------------|------------|------------|-------------------|----------------|
| VAX0601P1 | 0-1 | DC to 6GHz | 0.1 | 1.5 | 50Ω | 5W,10W |
| VAX061001 | 0-10 | DC to 6GHz | 1 | 1.5 | 50Ω | 5W,10W |
| VAX069010 | 0-90 | DC to 6GHz | 10 | 1.5 | 50Ω | 5W,10W |



Dual-circle Drum-type step attenuator

| Model | Attenuation Range (dB) | Frequency Range | Step Value | VSWR (Max) | Nominal Impedance | Input Power CW |
|-----------|------------------------|-----------------|------------|------------|-------------------|----------------|
| VAX061101 | 0-11 | DC to 6GHz | 1 | 1.3 | 50Ω | 5W,10W |
| VAX067001 | 0-70 | DC to 6GHz | 1 | 1.3 | 50Ω | 5W,10W |
| VAX069001 | 0-90 | DC to 6GHz | 1 | 1.3 | 50Ω | 5W,10W |



Dual-circle Rotary step attenuator

| Model | Attenuation Range (dB) | Frequency Range | Step Value | VSWR (Max) | Nominal Impedance | Input Power CW |
|-----------|------------------------|-----------------|------------|------------|-------------------|----------------|
| VAB061101 | 0-11 | DC to 6GHz | 1 | 1.3 | 50Ω | 5W,10W |
| VAB067001 | 0-70 | DC to 6GHz | 1 | 1.3 | 50Ω | 5W,10W |
| VAB069001 | 0-90 | DC to 6GHz | 1 | 1.3 | 50Ω | 5W,10W |



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宽带大功率腔体3dB电桥



特点:

- 超低损耗
- 驻波小
- 隔离度高
- 优越幅度平衡度和相位平衡度
- 原位替代
- 高可靠性
- 产品一致性好

应用:

- 雷达
- 微波收发模组
- 微波功放系统

| Part No. | Freq.Range (GHz) fL-fU | Power (W) | Size LxW xH (mm) | Return Loss (dB) | Insertion Loss (dB) | Amplitude Balance (dB) | Phase Balance (degrees) | Isolation (dB) |
|-----------|------------------------|-----------|------------------|------------------|---------------------|------------------------|-------------------------|----------------|
| HC9300C03 | 0.6~18 | 30 | 35.6×173.7×12.7 | 16 | 3 | ±1 | 90±8 | 16 |
| HC3150C03 | 0.3~6 | 30 | 35×280×14 | 14 | 2.2 | ±1.1 | 90±7 | 16 |
| HC2300C03 | 6~40 | 20 | 21.9×43.7×12.7 | 12 | 2 | ±1.2 | 90±10 | 15 |
| HC3825C03 | 26.5~50 | 20 | 21.9×43.7×12.7 | 11 | 2.7 | ±1 | 90±11 | 14 |
| HC3400C03 | 18~50 | 20 | 21.9×43.7×12.7 | 11 | 2.6 | ±0.9 | 90±12 | 13 |
| HC7200C03 | 2~12.4 | 30 | 33×72.4×12.7 | 16 | 1.1 | ±0.6 | 90±5 | 18 |
| HC1625C03 | 6~26.5 | 30 | 21.9×43.7×12.7 | 13 | 1.8 | ±0.7 | 90±8 | 15 |

宽带大功率腔体定向耦合器

| Part No. | Freq.Range (GHz) | Power (W) | Size LxWxH (mm) | Insertion Loss (dB) | Mean Coupling (dB) | Directivity (dB) | Return (dB) |
|-----------|------------------|-----------|-----------------|---------------------|--------------------|------------------|-------------|
| DC1500W20 | 1~40 | 20 | 88.9×12.7×17.8 | 1.9 | 20±0.7 | 10 | 11.7 |
| DC1650W20 | 6~40 | 20 | 31.8×12.7×15.9 | 1.6 | 10±0.7 | 10 | 12.7 |
| DC3000W20 | 6~67 | 12 | 31.8×12.7×15.9 | 2.5 | 10±1.1 | 7 | 10.2 |
| DC4000W10 | 0.5~50 | 20 | 111.8×12.7×17.8 | 3.6 | 10±1.2 | 8 | 10.9 |
| DC4000W20 | 18~65 | 12 | 31.8×12.7×15.9 | 1.9 | 20±1.0 | 7 | 10.2 |

产品线原位替代



BIAST偏置电路



温度补偿衰减器、固定衰减片、金刚石负载



功分器、巴伦、耦合器、电桥、衰减器



宽带大功率电桥、双定相耦合器



薄膜微带滤波器、薄膜微带耦合器、功分器、兰格桥



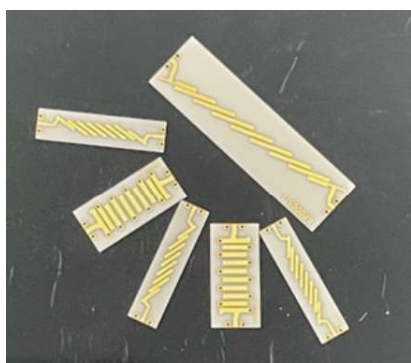
电桥、定向耦合器、功分器

备注:

我司可提供以上品牌各种系列化产品的原位替代型号，样品可以提供给客户评估和测试，并可大批量供货。国产化替代，国际化性能，产品性价比高。

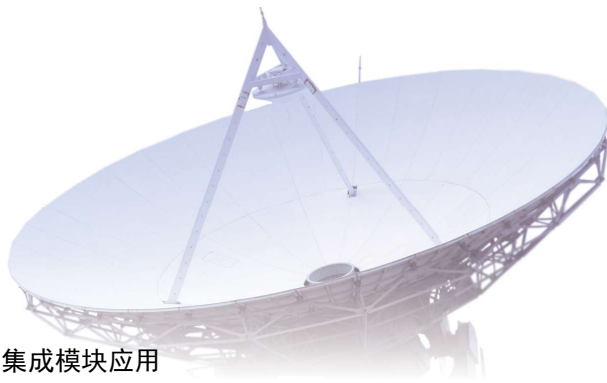
如需求，请联系0755-83551938, 0755-86561995, 手机: 18927425342 邮箱: inform@yantel-corp.com

薄膜微带低通滤波器



产品特点

- 小型化
- 高可靠性
- 温度范围宽
- 50 Ω 共面波导输出
- 金丝键合, 适用多芯片集成模块应用

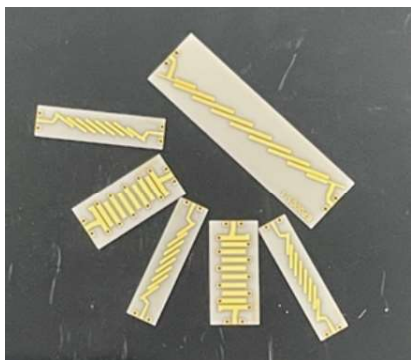


产品应用

- 微波通信
- 雷达
- 电子对抗

| Model | IL0@ f0(dB) | BW1dB(GHz) | Rfs@f1(dBc) | VSWR | Size(mm) |
|------------|-------------|------------|----------------|------|---------------|
| YTFLP4-9 | ≤2.0 | DC-4.0 | ≥40dBc@5.15GHz | ≤1.6 | 7.36*5.3*0.26 |
| YTFLP4R4-9 | ≤2.0 | DC-4.4 | ≥40dBc@5.8GHz | ≤1.6 | 7.5*5.0*0.26 |
| YTFLP8-9 | ≤1.5 | DC-8 | ≥40dBc@12.0GHz | ≤1.5 | 9.0*3.0*0.26 |
| YTFLP11-9 | ≤1.5 | DC-11 | ≥40dBc@15.1GHz | ≤1.5 | 7.7*3.0*0.26 |
| YTFLP14-9 | ≤1.5 | DC-14 | ≥40dBc@19.0GHz | ≤1.5 | 7.6*3.0*0.26 |
| YTFLP15-9 | ≤1.5 | DC-15 | ≥40dBc@20.0GHz | ≤1.5 | 7.1*3.0*0.26 |
| YTFLP16-9 | ≤2.0 | DC-16 | ≥40dBc@19.0GHz | ≤1.5 | 5.0*2.0*0.26 |
| YTFLP17-9 | ≤2.0 | DC-17 | ≥40dBc@22.0GHz | ≤1.5 | 5.5*1.6*0.26 |
| YTFLP21-9 | ≤2.0 | DC-21 | ≥40dBc@26.0GHz | ≤1.5 | 5.0*1.6*0.26 |
| YTFLP23-9 | ≤1.5 | DC-23 | ≥40dBc@28.8GHz | ≤1.8 | 4.3*2.0*0.26 |

薄膜微带带通滤波器



产品特点

- 小型化
- 高可靠性
- 温度范围宽
- 50 Ω 共面波导输出
- 金丝键合, 适用多芯片集成模块应用

产品应用

- 微波通信
- 雷达
- 电子对抗

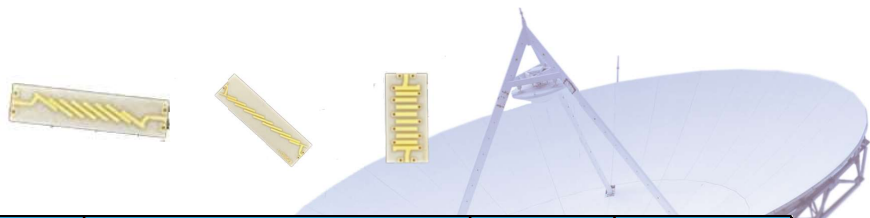
| Model | IL0@ f0(dB) | BW1dB(GHz) | Rfs@f1(dBc) | | VSWR | Size(mm) |
|-------------------|-------------|------------|---------------|----------------|------|--------------|
| YTFBP5R5/1R2-10JA | ≤3.0 | 4.9-6.1 | ≥40dBc@4.0GHz | ≥40dBc@7.6GHz | ≤1.8 | 8.0*6.0*0.26 |
| YTFBP6R2/1R2-10JA | ≤3.0 | 5.6-6.8 | ≥40dBc@4.9GHz | ≥40dBc@7.5GHz | ≤1.8 | 8.5*5.5*0.26 |
| YTFBP6R25/3-8ID | ≤2.5 | 4.75-7.75 | ≥40dBc@2.5GHz | ≥40dBc@9.55GHz | ≤1.5 | 6.0*6.0*0.39 |
| YTFBP6R5/1R2-11ID | ≤1.5 | 5.9-7.1 | ≥40dBc@4.7GHz | ≥40dBc@8.1GHz | ≤1.6 | 8.5*6.0*0.26 |
| YTFBP7R15/1R9-8JA | ≤2.5 | 6.2-8.1 | ≥40dBc@5.2GHz | ≥40dBc@9.5GHz | ≤1.8 | 5.5*5.0*0.26 |

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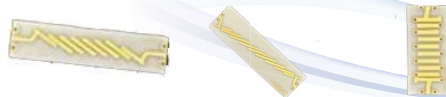
| Model | IL0@f0(dB) | BW1dB(GHz) | Rfs@f1(dBc) | | VSWR | Size(mm) |
|---------------------|------------|------------|-----------------|-----------------|------|----------------|
| YTFBP7R25/3R5-11ID | ≤2.5 | 5.5-9.0 | ≥40dBc@4.0GHz | ≥40dBc@11.0GHz | ≤1.6 | 7.0*5.0*0.26 |
| YTFBP7R45/R6-9ID | ≤3.0 | 7.15-7.75 | ≥40dBc@6.5GHz | ≥40dBc@8.52GHz | ≤1.5 | 10.4*4.9*0.26 |
| YTFBP7R45/2R9-8JA | ≤2.0 | 6.0-8.9 | ≥40dBc@4.75GHz | ≥40dBc@11GHz | ≤1.8 | 5.5*5.0*0.26 |
| YTFBP7R7/3-10ID | ≤2.0 | 6.2-9.2 | ≥40dBc@4.0GHz | ≥40dBc@11.5GHz | ≤1.6 | 6.0*5.5*0.26 |
| YTFBP7R8/1-6ID | ≤2.0 | 7.3-8.3 | ≥30dBc@6.3GHz | ≥40dBc@9.25GHz | ≤1.5 | 6.0*4.9*0.26 |
| YTFBP7R8/R6-7ID | ≤2.5 | 7.5-8.1 | ≥40dBc@6.7GHz | ≥40dBc@9.3GHz | ≤1.5 | 9.6*4.9*0.26 |
| YTFBP8R2/1R6-10JA | ≤3.5 | 7.4-9.0 | ≥40dBc@6.4GHz | ≥40dBc@10.35GHz | ≤1.8 | 7.5*5.0*0.26 |
| YTFBP8R5/1R2-10JA | ≤2.5 | 7.9-9.1 | ≥40dBc@6.7GHz | ≥40dBc@10.3GHz | ≤1.8 | 8.0*4.0*0.26 |
| YTFBP9/2R3-9ID | ≤2.0 | 7.85-10.15 | ≥40dBc@6.0GHz | ≥40dBc@11.5GHz | ≤1.5 | 7.0* 4.5 *0.26 |
| YTFBP9R1/2R4-10JA | ≤2.5 | 7.9-10.3 | ≥40dBc@6.7GHz | ≥40dBc@12.3GHz | ≤1.8 | 7.0*4.0*0.26 |
| YTFBP9R4/2R4-10JA | ≤2.5 | 8.2-10.6 | ≥40dBc@6.8GHz | ≥40dBc@12.7GHz | ≤1.8 | 7.0*4.0*0.26 |
| YTFBP9R6/R8-7SA | ≤4.0 | 9.2-10.0 | ≥40dBc@8.3GHz | ≥40dBc@10.8GHz | ≤1.8 | 6.4*3.5*0.26 |
| YTFBP9R7/3-8JA | ≤2.0 | 8.2-11.2 | ≥40dBc@6.7GHz | ≥40dBc@13.2GHz | ≤1.8 | 5.5*3.5*0.26 |
| YTFBP9R7/3R2-10JA | ≤2.5 | 8.1-11.3 | ≥40dBc@6.6GHz | ≥40dBc@14.3GHz | ≤1.8 | 6.5*3.5*0.26 |
| YTFBP9R7/4R2-9ID | ≤2.5 | 7.6-11.8 | ≥40dBc@5.2GHz | ≥40dBc@13.9GHz | ≤1.6 | 7.0*4.0*0.26 |
| YTFBP9R75/1R3-7ID | ≤2.0 | 9.1-10.4 | ≥40dBc@7.5GHz | ≥40dBc@11.4GHz | ≤1.5 | 7.0*4.0*0.26 |
| YTFBP9R8/2R2-10JA | ≤2.5 | 8.7-10.9 | ≥40dBc@7.75GHz | ≥40dBc@13GHz | ≤1.8 | 7.5*3.8*0.26 |
| YTFBP10/4-9ID | ≤2.5 | 8.0-12.0 | ≥40dBc@5.6GHz | ≥40dBc@14GHz | ≤1.6 | 7.0*4.0*0.26 |
| YTFBP10R2/4-8JA | ≤2.0 | 8.2-12.2 | ≥40dBc@6.8GHz | ≥40dBc@14.7GHz | ≤1.8 | 5.5*3.5*0.26 |
| YTFBP10R2/5-9ID | ≤2.0 | 7.7-12.7 | ≥40dBc@5.4GHz | ≥40dBc@14.8GHz | ≤1.5 | 7.0*4.0*0.26 |
| YTFBP10R45/4R5-8JA | ≤2.0 | 8.2-12.7 | ≥40dBc@6.6GHz | ≥40dBc@15.6GHz | ≤1.8 | 5.5*3.5*0.26 |
| YTFBP10R75/1R3-9ID | ≤3.0 | 10.1-11.4 | ≥30dBc@9.3GHz | ≥40dBc@12.5GHz | ≤1.6 | 9.4*3.1*0.26 |
| YTFBP10R8/2R4-10JA | ≤2.2 | 9.6-12.0 | ≥40dBc@8.45GHz | ≥40dBc@14.2GHz | ≤1.6 | 7*3.5*0.26 |
| YTFBP11/1R2-5ID | ≤1.5 | 10.4-11.6 | ≥40dBc@8.5GHz | ≥40dBc@13.0GHz | ≤1.5 | 6.8*3.1*0.26 |
| YTFBP11R3/3R8-8JA | ≤2.0 | 9.4-13.2 | ≥40dBc@7.9GHz | ≥40dBc@15.6GHz | ≤1.8 | 5.5*3.5*0.26 |
| YTFBP11R35/3R9-10JA | ≤2.5 | 9.4-13.25 | ≥40dBc@8.2GHz | ≥40dBc@15.6GHz | ≤1.6 | 7.0*3.5*0.26 |
| YTFBP11R4/2R4-7ID | ≤2.0 | 10.2-12.6 | ≥40dBc@8.0GHz | ≥40dBc@14.5GHz | ≤1.6 | 7*3.6*0.26 |
| YTFBP11R5/1R2-5SA | ≤2.5 | 10.9-12.1 | ≥40dBc@9.0GHz | ≥40dBc@13.6GHz | ≤1.8 | 4*3.2*0.26 |
| YTFBP 11R8/2R6-10JA | ≤2.5 | 10.5-13.1 | ≥40dBc@9.35GHz | ≥40dBc@15.1GHz | ≤1.8 | 7.0*3.5*0.26 |
| YTFBP12R2/3R6-10ID | ≤2.0 | 10.4-14.0 | ≥40dBc@ 8.2 GHz | ≥40dBc@15.85GHz | ≤1.5 | 7.0*3.5*0.26 |

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| Model | IL0@ f0(dB) | BW1dB(GHz) | Rfs@f1(dBc) | VSWR | Size(mm) |
|---------------------|-------------|------------|---------------------------------|------|---------------|
| YTFBP12R4/R8-7ID | ≤ 2.5 | 12.0- 12.8 | ≥40dBc@10.0GHz ≥40dBc@14.0GHz | ≤1.5 | 7.0*3.5*0.26 |
| YTFBP 12R5/3-10JA | ≤ 2.5 | 11.0-14 | ≥40dBc@9.7GHz ≥40dBc@15.7GHz | ≤1.6 | 7.0*3.5*0.26 |
| YTFBP12R6/4-9ID | ≤2.0 | 10.6-14.6 | ≥40dBc@8.2GHz ≥40dBc@16.5GHz | ≤1.6 | 7.4*3.1*0.26 |
| YTFBP12R65/4R5-10JA | ≤ 2.5 | 10.4-14.9 | ≥40dBc@8.8GHz ≥40dBc@17.1GHz | ≤1.6 | 7.0*3.5*0.26 |
| YTFBP12R8/R8-6CP | ≤3.0 | 12.4-13.20 | ≥40dBc@11.6GHz ≥40dBc@13.9GHz | ≤1.5 | 14.8*5.6*0.26 |
| YTFBP12R85/2R3-10JA | ≤2.5 | 11.7-14.0 | ≥40dBc@10.5GHz ≥40dBc@16GHz | ≤1.8 | 7.0*3.0*0.26 |
| YTFBP12R85/3R3-8JA | ≤2.0 | 11.2-14.5 | ≥40dBc@9.7GHz ≥40dBc@16.6GHz | ≤1.8 | 5.5*3.0*0.26 |
| YTFBP12R9/3R4-10JA | ≤2.5 | 11.2-14.6 | ≥40dBc@10.1GHz ≥40dBc@15.9GHz | ≤1.8 | 6.5*3.0*0.26 |
| YTFBP12R9/3-10JA | ≤2.5 | 11.4-14.4 | ≥40dBc@10.1GHz ≥40dBc@16.5GHz | ≤1.8 | 6.5*3.0*0.26 |
| YTFBP12R9/1R2-7ID | ≤2.5 | 12.3-13.5 | ≥40dBc@11.0GHz ≥40dBc@14.8GHz | ≤1.5 | 8.9*2.9*0.26 |
| YTFBP12R9/1R6-7ID | ≤2.5 | 12.1-13.7 | ≥40dBc@10.5GHz ≥40dBc@15.0GHz | ≤1.5 | 8.3*2.9*0.26 |
| YTFBP13/4-9ID | ≤2.5 | 11.0-15.0 | ≥40dBc@8.5GHz ≥40dBc@17GHz | ≤1.8 | 6.0*3.2*0.26 |
| YTFBP13R45/2R7-10JA | ≤2.8 | 12.1-14.8 | ≥40dBc@10.7GHz ≥40dBc@17.6GHz | ≤1.8 | 7*3*0.26 |
| YTFBP13R9/1R4-9HP | ≤3.5 | 13.2-14.6 | ≥40dBc@12.3GHz ≥40dBc@16.0GHz | ≤1.5 | 11.5*3.5*0.26 |
| YTFBP13R9/7-8ID | ≤1.5 | 10.4-17.4 | ≥40dBc@7.1GHz ≥40dBc@19.9GHz | ≤1.6 | 6.0*4.0*0.39 |
| YTFBP14/1-9ID | ≤3.0 | 13.5-14.5 | ≥45dBc@12GHz ≥40dBc@16GHz | ≤1.8 | 9.0*3.0*0.26 |
| YTFBP14R35/2R3-7ID | ≤2.0 | 13.2-15.5 | ≥40dBc@10.5GHz ≥40dBc@17.2GHz | ≤1.6 | 7.0*3.5*0.26 |
| YTFBP14R75/2R9-8JA | ≤2.5 | 13.3-16.2 | ≥40dBc@11.9GHz ≥40dBc@18.3GHz | ≤1.8 | 6.0 *3.0*0.26 |
| YTFBP14R75/5R5-10ID | ≤3.0 | 12.0-17.5 | ≥55dBc@8GHz ≥55dBc@21GHz | ≤1.8 | 7.0*2.5*0.26 |
| YTFBP14R9/5R4-10JA | ≤2.5 | 12.2-17.6 | ≥40dBc@10.6GHz; ≥40dBc@20.4GHz; | ≤1.6 | 7.0*2.5*0.26 |
| YTFBP14R95/1R9-10JA | ≤3.0 | 14-15.9 | ≥40dBc@12.7GHz ≥40dBc@17.5GHz | ≤1.8 | 8 *2.5*0.26 |
| YTFBP15/2-6CP | ≤1.5 | 14.0-16.0 | ≥40dBc@11.0GHz; ≥40dBc@18.5GHz; | ≤1.5 | 12.0*4.0*0.26 |
| YTFBP15/6R4-10JA | ≤2.5 | 11.8-18.2 | ≥40dBc@8GHz; ≥40dBc@21GHz; | ≤1.6 | 7.0*3.0*0.26 |
| YTFBP15R25/R5-6HP | ≤4.5 | 15.0-15.5 | ≥40dBc@13.8GHz ≥40dBc @17.0GHz | ≤1.8 | 7.0*2.8*0.26 |
| YTFBP15R4/4R2-10ID | ≤2.5 | 13.3-17.5 | ≥40dBc@11.0GHz ≥40dBc@20.0GHz | ≤1.8 | 6.5*3.0*0.26 |
| YTFBP15R7/3-6ID | ≤2.0 | 14.2-17.2 | ≥40dBc@10.0GHz ≥40dBc@19.0GHz | ≤1.5 | 5.0*3.0*0.26 |
| YTFBP15R8/R8-10JA | ≤3.0 | 15.4-16.2 | ≥45dBc@14.0GHz ≥40dBc@18.0GHz | ≤1.8 | 9.0*3.0*0.26 |
| YTFBP15R8/2R4-8JA | ≤2.5 | 14.6-17 | ≥40dBc@13.3Hz ≥40dBc@18.75GHz | ≤1.8 | 6.5*2.5*0.26 |
| YTFBP15R8/2-8ID | ≤2.0 | 14.8-16.8 | ≥40dBc@13.0GHz ≥40dBc@18.0GHz | ≤1.5 | 7.0*3.0*0.26 |
| YTFBP15R9/5-8JA | ≤2.0 | 13.4-18.4 | ≥40dBc@11.7Hz ≥40dBc@21.0GHz | ≤1.8 | 5.5*2.5*0.26 |
| YTFBP16/1R8-9HP | ≤3.5 | 15.1-16.9 | ≥40dBc@13.8GHz ≥40dBc@18.3GHz | | 12.0*3.0*0.26 |

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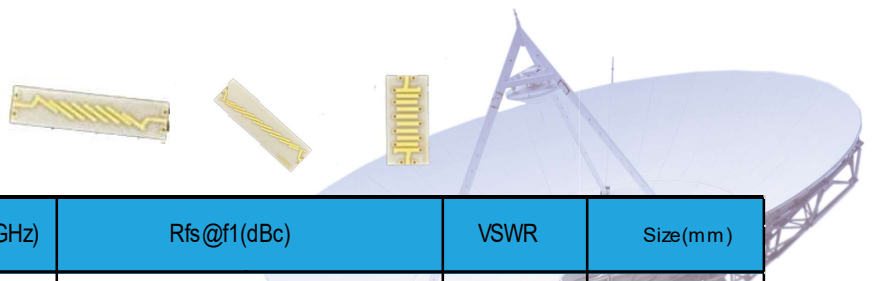
| Model | IL0@f0(dB) | BW1dB(GHz) | Rfs@f1(dBc) | VSWR | Size(mm) |
|---------------------|------------|-------------|--------------------------------|------|---------------|
| YTFBP16/4-7ID | ≤2.0 | 14.0-18.0 | ≥40dBc@10.0GHz ≥40dBc@20.2GHz | ≤1.5 | 6.0*3.0*0.26 |
| YTFBP16/6-12ID | ≤2.0 | 13.0-19.0 | ≥40dBc@11.0GHz ≥40dBc@22.0GHz | ≤1.5 | 6.5*3.0*0.26 |
| YTFBP16R25/4R5-9ID | ≤2.5 | 14.0-18.5 | ≥40dBc@11.5GHz ≥40dBc@20.0GHz | ≤1.8 | 7.0*2.9*0.26 |
| YTFBP16R25/3R9-10JA | ≤2.7 | 14.3-18.2 | ≥40dBc@12.9GHz ≥40dBc@20.0GHz | ≤1.8 | 7.0*2.5*0.26 |
| YTFBP16R5/1R4-7HP | ≤3.5 | 15.8-17.2 | ≥40dBc@14.6GHz ≥40dBc@18.9GHz | ≤1.5 | 9.0*3.0*0.26 |
| YTFBP16R65/3R1-10JA | ≤2.7 | 15.1-18.2 | ≥40dBc@13.5GHz ≥40dBc@20.2GHz | ≤1.8 | 7.5*2.5*0.26 |
| YTFBP17/1R8-7ID | ≤2.0 | 16.1-17.9 | ≥40dBc@13.5GHz ≥40dBc@19.7GHz | ≤1.6 | 7.0*3.0*0.26 |
| YTFBP17/2R8-10JA | ≤3.0 | 15.6-18.4 | ≥40dBc@14.3GHz ≥40dBc@20.3GHz | ≤1.8 | 7.5*2.5*0.26 |
| YTFBP17R4/1R6-9HP | ≤3.5 | 16.6-18.2 | ≥40dBc@15.3GHz ≥40dBc@19.5GHz | ≤1.6 | 12.0*3.0*0.26 |
| YTFBP17R65/1R9-10JA | ≤2.5 | 16.7-18.6 | ≥40dBc@15.2GHz ≥40dBc@20.9GHz | ≤1.8 | 7.5*2.5*0.26 |
| YTFBP18/1-9ID | ≤2.5 | 17.5-18.5 | ≥45dBc@16.0GHz ≥40dBc@20.0GHz | ≤1.6 | 9.0*3.0*0.26 |
| YTFBP18/1-6CP | ≤3.0 | 17.5-18.5 | ≥40dBc@16.2GHz ≥40dBc@19.5GHz | ≤1.5 | 10.2*4.0*0.26 |
| YTFBP18/2R1-8ID | ≤2.5 | 16.95-19.05 | ≥40dBc@14.5GHz ≥40dBc@20.35GHz | ≤1.5 | 7.0*3.0*0.26 |
| YTFBP18/8-8ID | ≤1.5 | 14.0-22.0 | ≥40dBc@9.0GHz ≥40dBc@24.0GHz | ≤1.8 | 4.3*2.5*0.26 |
| YTFBP19R15/1R7-7SA | ≤2.8 | 18.3-20 | ≥40dBc@16.6GHz ≥40dBc@20.7GHz | ≤1.8 | 5.5*2.5*0.26 |
| YTFBP19R5/5R4-10ID | ≤2.5 | 16.8-22.2 | ≥60dBc@12.0GHz ≥30dBc@25.0GHz | ≤1.6 | 7.5*2.5*0.26 |
| YTFBP19R8/8-10JA | ≤4.0 | 19.4-20.2 | ≥40dBc@18.0GHz ≥40dBc@22.0GHz | ≤1.8 | 9.0*2.5*0.26 |
| YTFBP19R9/2R2-9ID | ≤3.0 | 18.8-21.0 | ≥40dBc@17.1GHz ≥40dBc@22.4GHz | ≤1.6 | 8.0*2.5*0.26 |
| YTFBP20R15/3R7-6ID | ≤2.0 | 18.3-22.0 | ≥40dBc@12.6GHz ≥40dBc@24.5GHz | ≤1.5 | 5.5*2.5*0.26 |
| YTFBP21/4-8ID | ≤2.0 | 19.0-23.0 | ≥40dBc@15.2GHz ≥40dBc@25.5GHz | ≤1.6 | 5.0*2.5*0.26 |
| YTFBP21R34/4-6ID | ≤2.0 | 19.24-23.44 | ≥50dBc@12GHz ≥45dBc@29GHz | ≤1.6 | 7.5*2.6*0.26 |
| YTFBP21R2/8-6CP | ≤4.0 | 20.85-21.55 | ≥40dBc@19.8GHz ≥40dBc@22.5GHz | ≤1.5 | 11.0*3.0*0.26 |
| YTFBP21R9/1R6-6CP | ≤2.5 | 21.1-22.7 | ≥40dBc@20GHz ≥40dBc@24.5GHz | ≤1.5 | 10.0*3.5*0.26 |
| YTFBP22R1/8-9ID | ≤4.5 | 21.8-22.4 | ≥40dBc@20GHz ≥40dBc@24GHz | ≤1.5 | 9.0*2.0*0.26 |
| YTFBP22R2/2R6-6CP | ≤2.0 | 20.9-23.3 | ≥40dBc@19.0GHz ≥40dBc@25.7GHz | ≤1.5 | 10.0*3.5*0.26 |
| YTFBP22R5/8-6RA | ≤3.5 | 22.1-22.9 | ≥40dBc@20.4GHz ≥40dBc@24.2GHz | ≤1.8 | 5.0*2.5*0.26 |
| YTFBP22R85/8-6CP | ≤3.0 | 22.5-23.2 | ≥40dBc@20.3GHz ≥40dBc@24.4GHz | ≤1.5 | 11.0*3.5*0.26 |
| YTFBP23/2-6CP | ≤2.0 | 22.0-24.0 | ≥40dBc@15.5GHz ≥40dBc@27GHz | ≤1.6 | 8.4*2.5*0.26 |
| YTFBP23/4-7CP | ≤2.5 | 21-25 | ≥40dBc@19GHz ≥40dBc@27GHz | ≤1.6 | 10.3*3.6*0.26 |
| YTFBP23R5/9-10ID | ≤2.0 | 19.0-28.0 | ≥40dBc@16.4GHz ≥40dBc@33.0GHz | ≤1.6 | 8.0*2.5*0.39 |

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| Model | IL0@f0(dB) | BW1dB(GHz) | Rfs@f1(dBc) | VSWR | Size(mm) |
|---------------------|------------|------------|---------------------------------|------|---------------|
| YTFBP23R9/R6-6CP | ≤4.0 | 23.6-24.2 | ≥40dBc@22.5GHz ≥40dBc@25.7GHz | ≤1.5 | 9.2*2.9*0.26 |
| YTFBP24/6-10ID | ≤2.5 | 21-27 | ≥40dBc@18.5GHz ≥40dBc@33GHz | ≤1.8 | 7.0*2.2*0.26 |
| YTFBP24R3/1-9ID | ≤4.5 | 23.8-24.8 | ≥40dBc@22GHz ≥40dBc@26GHz | ≤1.6 | 9.0*2.0*0.26 |
| YTFBP24R6/8R4-10ID | ≤2.5 | 20.4.-28.8 | ≥40dBc@17.5GHz ≥40dBc@31.5GHz | ≤1.8 | 9.0*2.5*0.39 |
| YTFBP25R5/R9-6CP | ≤3.5 | 25.1-26.0 | ≥40dBc@24.0GHz ≥40dBc@27.3GHz | ≤1.8 | 9.5*3.0*0.26 |
| YTFBP25R5/7-8ID | ≤2.0 | 22.0 -29.0 | ≥40dBc@17.0GHz ≥40dBc@33.0GHz | ≤1.6 | 6.0*2.0*0.26 |
| YTFBP25R7/7-7ID | ≤2.0 | 22.2-29.2 | ≥40dBc@ 17.0GHz ≥40dBc@33.0GHz | ≤1.5 | 6.6*2.5*0.26 |
| YTFBP25R7/2R6-8CP | ≤2.5 | 24.4-27.0 | ≥40dBc@22.5GHz ≥40dBc@28.5GHz | ≤1.5 | 9.0*2.5*0.26 |
| YTFBP26/2-7ID | ≤2.5 | 25.0-27.0 | ≥40dBc@22.2GHz; ≥20dBc@29.5GHz; | ≤1.5 | 8.0*2.5*0.26 |
| YTFBP26R5/8-8CP | ≤2.0 | 22.5-30.5 | ≥40dBc@20.0GHz ≥40dBc@33.6GHz | ≤1.5 | 10.5*2.5*0.26 |
| YTFBP27/7R5-8ID | ≤2.0 | 22.5-30.0 | ≥40dBc@18.0GHz ≥40dBc@34.0GHz | ≤1.6 | 6.0*1.9*0.26 |
| YTFBP27R65/1R5-6CP | ≤2.5 | 26.9-28.1 | ≥40dBc@24.5GHz ≥40dBc@30GHz | ≤1.6 | 8.0*3.0*0.26 |
| YTFBP27R9/8R6-8ID | ≤2.0 | 23.6-32.2 | ≥40dBc@18.0GHz ≥40dBc@35.0GHz | ≤1.5 | 5.0*2.5*0.26 |
| YTFBP28R5/5-6CP | ≤1.5 | 26.0-31.0 | ≥40dBc@23.0GHz ≥20dBc@37.0GHz | ≤1.5 | 7.5*2.6*0.26 |
| YTFBP28R6/6R8-12ID | ≤2.5 | 25.2-32.0 | ≥40dBc@21.5GHz ≥40dBc@34.0GHz | ≤1.8 | 8.5*2.5*0.26 |
| YTFBP29/6-8CP | ≤2.0 | 26-32.0 | ≥40dBc@22.6GHz ≥40dBc@36.0GHz | ≤1.8 | 9.5*2.5*0.26 |
| YTFBP29/8-6CP | ≤1.5 | 25.0-33.0 | ≥40dBc@20.0GHz ≥40dBc@40.0GHz | ≤1.5 | 7.0*2.5*0.26 |
| YTFBP29R2/4-6CP | ≤1.5 | 27.2-31.2 | ≥40dBc@24.5GHz ≥40dBc@34.9GHz | ≤1.5 | 8.0*3.0*0.26 |
| YTFBP29R25/6R5-10ID | ≤2.0 | 26-32.5 | ≥40dBc@22.0GHz ≥40dBc@35.0GHz | ≤1.8 | 8.5*2.5*0.26 |
| YTFBP29R35/5R1-6CP | ≤2.0 | 27.0-31.2 | ≥40dBc@24GHz ≥40dBc@34.5GHz | ≤1.5 | 8.0*2.0*0.26 |
| YTFBP29R5/7-8CP | ≤2.5 | 26.0-33.0 | ≥40dBc@24.5GHz ≥40dBc@38.0GHz | ≤1.8 | 11*2.5*0.26 |
| YTFBP30R3/8-8CP | ≤1.5 | 26.7-34.3 | ≥40dBc@23.4GHz ≥30dBc@37.3GHz | ≤1.5 | 9.5*2.5*0.26 |
| YTFBP30R55/1R3-6CP | ≤2.5 | 29.9-31.1 | ≥40dBc@27.8GHz ≥40dBc@33.1GHz | ≤1.5 | 8.5*3.0*0.26 |
| YTFBP30R8/3R6-9CP | ≤2.5 | 29.3-32.3 | ≥40dBc@27.0GHz ≥40dBc@34.6GHz | ≤1.6 | 10.5*2.5*0.26 |
| YTFBP31/3-8CP | ≤2.0 | 29.5-32.5 | ≥40dBc@27.0GHz ≥40dBc@35GHz | ≤1.5 | 10.0*2.6*0.26 |
| YTFBP32/2-6CP | ≤2.0 | 31-33 | ≥40dBc@28.3GHz ≥40dBc@35.5GHz | ≤1.5 | 8.0*3.0*0.26 |
| YTFBP32/9-8CP | ≤2.0 | 27.5-36.5 | ≥40dBc@18GHz ≥40dBc@42GHz | ≤1.8 | 9.0*2.5*0.26 |
| YTFBP33/4-6CP | ≤2.0 | 31~35 | ≥40dBc@27.0GHz ≥40dBc@39.0GHz | ≤1.6 | 7.5*3.0*0.26 |
| YTFBP33R75/4R5-10CP | ≤3.0 | 31.5-36 | ≥50dBc@29.0GHz ≥40dBc@38.5GHz | ≤1.8 | 11.0*2.5*0.26 |
| YTFBP34/4-6CP | ≤1.5 | 32-36 | ≥40dBc@28.0GHz ≥40dBc@41.66GHz | ≤1.6 | 7.5*2.3*0.26 |

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薄膜微带带通滤波器



| Model | IL0@f0(dB) | BW1dB(GHz) | Rfs@f1(dBc) | | VSWR | Size(mm) |
|---------------------|------------|------------|----------------|-----------------|------|---------------|
| YTFBP34/4-8CP | ≤1.5 | 32-36 | ≥40dBc@29.0GHz | ≥60dBc@41.66GHz | ≤1.6 | 9.5*2.3*0.26 |
| YTFBP34/4-10CP | ≤3.0 | 32-36 | ≥50dBc@29.5GHz | ≥40dBc@38.5GHz | ≤1.8 | 11.0*2.5*0.26 |
| YTFBP34R3/4R8-6CP | ≤2.0 | 31.9-36.7 | ≥40dBc@28.2GHz | ≥40dBc@40.0GHz | ≤1.5 | 7.0*2.5*0.26 |
| YTFBP34R3/11R4-12CP | ≤2.0 | 28.6-40 | ≥40dBc@20GHz | ≥40dBc@42.9GHz | ≤1.8 | 12.0*2.5*0.26 |
| YTFBP34R5/3R4-6CP | ≤2.5 | 32.8-35.8 | ≥40dBc@29.6GHz | ≥40dBc@38GHz | ≤1.6 | 8.0*3.0*0.26 |
| YTFBP34R6/1R4-6CP | ≤2.5 | 34.15-35.3 | ≥40dBc@31.5GHz | ≥40dBc@37.7GHz | ≤1.6 | 8.5*3.0*0.26 |
| YTFBP34R6/10R2-8CP | ≤2.0 | 29.5-39.7 | ≥40dBc@26.2GHz | ≥40dBc@44.5GHz | ≤1.6 | 8.5*2.0*0.26 |
| YTFBP35/10-8CP | ≤2.0 | 30-40 | ≥50dBc@20GHz | ≥40dBc@45GHz | ≤1.6 | 8.0*1.9*0.26 |
| YTFBP35R6/R4-6CP | ≤4.0 | 35.4-35.8 | ≥40dBc@34.0GHz | ≥40dBc@37.0GHz | ≤1.8 | 9.5*2.6*0.26 |
| YTFBP35R6/R8-6CP | ≤3.5 | 35.2-36 | ≥40dBc@33.0GHz | ≥40dBc@37.3GHz | ≤1.8 | 9.5*2.6*0.26 |
| YTFBP35R7/4-8CP | ≤2.0 | 33.7-37.7 | ≥40dBc@30.5GHz | ≥40dBc@40.0GHz | ≤1.6 | 9.0*2.6*0.26 |
| YTFBP36/2-6CP | ≤2.5 | 35.0-37.0 | ≥40dBc@32.0GHz | ≥40dBc@40.0GHz | ≤1.5 | 8.5*3.0*0.26 |
| YTFBP37R75/5R5-8CP | ≤3.0 | 35-40.5 | ≥40dBc@32.0GHz | ≥40dBc@44.0GHz | ≤1.8 | 10*2.5*0.26 |
| YTFBP38/R8-4CP | ≤3.0 | 37.6-38.4 | ≥50dBc@34.0GHz | ≥50dBc@41.0GHz | ≤1.5 | 7.0*1.9*0.26 |
| YTFBP42/5-8ID | ≤3.0 | 39.5-44.5 | ≥40dBc@24.0GHz | ≥40dBc@60.0GHz | ≤1.8 | 4.0*2.0*0.127 |

宽带巴伦-绕线贴片式封装(替换MINI)



特性:

- 宽频带特性
- 优越的射频特性
- 小尺寸
- 尺寸&管脚国际兼容
- 绕线式贴片封装

应用:

- 微波通信
- 第一代/第二代电台
- 雷达
- 微波收发模块

| 研通型号 | 频率范围(MHz) | 阻抗 | 阻抗比 |
|----------------|-----------|----|-----|
| YT-ADT1-6T+ | 0.03-125 | 50 | 1 |
| YT-ADT1.5-1+ | 0.5-650 | 50 | 1.5 |
| YT-ADT2-1T+ | 0.4-450 | 50 | 2 |
| YT-ADT2-1T-1P+ | 8-600 | 50 | 2 |
| YT-ADT3-1T+ | 1-500 | 50 | 3 |
| YT-ADT3-6T+ | 0.06-400 | 50 | 3 |
| YT-ADT4-1T+ | 9-625 | 50 | 4 |
| YT-ADT4-1WT+ | 2-775 | 50 | 4 |
| YT-ADT4-5WT+ | 0.3-500 | 50 | 4 |
| YT-ADT4-6T+ | 0.06-300 | 50 | 4 |
| YT-ADT4-6WT+ | 0.5-600 | 50 | 4 |
| YT-ADT8-1T+ | 0.1-130 | 50 | 8 |
| YT-ADT9-1T+ | 1-250 | 50 | 9 |
| YT-ADT16-1T+ | 1.5-160 | 50 | 16 |

| 研通型号 | 频率范围(MHz) | 阻抗 | 阻抗比 |
|---------------|-----------|----|-----|
| YT-ADT16-6T+ | 0.1-70 | 50 | 16 |
| YT-JT-1975+ | 0.04-80 | 50 | 2.5 |
| YT-JTX-4-10T+ | 50-1000 | 50 | 4 |
| YT-T1-1T+ | 0.08-200 | 50 | 1 |
| YT-T1-6T+ | 0.015-300 | 50 | 1 |
| YT-T2-1T-X65+ | 0.07-200 | 50 | 2 |
| YT-T2.5-6T+ | 0.01-100 | 50 | 2.5 |
| YT-T3-1T+ | 0.05-250 | 50 | 3 |
| YT-T3-1T-X65+ | 0.05-250 | 50 | 3 |
| YT-T4-1+ | 0.2-350 | 50 | 4 |
| YT-T4-1-KK81+ | 0.2-350 | 50 | 4 |
| YT-T4-1H+ | 10-350 | 50 | 4 |
| YT-T4-6T+ | 0.02-250 | 50 | 4 |
| YT-T5-1T+ | 0.3-300 | 50 | 5 |

宽带巴伦-绕线贴片式封装(替换MINI)



| 研通型号 | 频率范围(MHz) | 阻抗 | 阻抗比 |
|--------------------|------------|----|-----|
| YT-T5-1T-KK81+ | 0.3-300 | 50 | 5 |
| YT-T8-1T-X65+ | 0.3-140 | 50 | 8 |
| YT-T13-1T+ | 0.3-120 | 50 | 13 |
| YT-T13-1T-X65+ | 0.3-120 | 50 | 13 |
| YT-T16-6T+ | 0.03-75 | 50 | 16 |
| YT-T16-6T-X65+ | 0.03-75 | 50 | 16 |
| YT-TC1-1T+ | 0.4-500 | 50 | 1 |
| YT-TC1.5-52T+ | 0.5-550 | 50 | 1.5 |
| YT-TC1.5-52TX+ | 0.5-550 | 50 | 1.5 |
| YT-TC2-1T+ | 3-300 | 50 | 2 |
| YT-ADTL1-12+ | 20-1200 | 50 | 1 |
| YT-ADTL2-18+ | 30-1800 | 50 | 2 |
| YT-SBTX2-113-2W+ | 2600-11000 | 50 | 2 |
| YT-SCTX1-83-2W+ | 10-8000 | 50 | 1 |
| YT-SCTX2-93-2W+ | 10-9000 | 50 | 2 |
| YT-SYTX1-52HP-15W+ | 20-520 | 50 | 1 |
| YT-TC1-1-13M+ | 4.5-3000 | 50 | 1 |

| 研通型号 | 频率范围(MHz) | 阻抗 | 阻抗比 |
|-----------------|-----------|----|-----|
| YT-TC1-1-43X+ | 650-4000 | 50 | 1 |
| YT-TC1-15X+ | 350-1500 | 50 | 1 |
| YT-TCL1-11+ | 600-1100 | 50 | 1 |
| YT-TCL1-19+ | 800-1900 | 50 | 1 |
| YT-TCM2-672X+ | 1700-6700 | 50 | 2 |
| YT-TCM4-25+ | 500-2500 | 50 | 4 |
| YT-TCM4-452X+ | 20-4500 | 50 | 4 |
| YT-TX4-62HP+ | 20-600 | 50 | 4 |
| YT-TXA4-512HP+ | 30-512 | 50 | 4 |
| YT-TCM1-43X+ | 10-4000 | 50 | 1 |
| YT-TCM1-63AX+ | 10-6000 | 50 | 1 |
| YT-TCM1-83X+ | 10-8000 | 50 | 1 |
| YT-TCM2-43X+ | 10-4000 | 50 | 2 |
| YT-TCM2-63WX+ | 30-6000 | 50 | 2 |
| YT-TC1-1T-152X+ | 5-1500 | 50 | 1 |
| YT-TCM2-33WX+ | 10-3000 | 50 | 2 |
| YT-TCM2-33X+ | 30-3000 | 50 | 2 |
| YT-ADT2-162T+ | 20-1600 | 50 | 2 |

宽带耦合器-绕线贴片式封装(替换MINI)



特性:

- 宽频带特性
- 低插入损耗
- 好的相位平衡度
- 好的幅度平衡度
- 优越的射频特性
- 坚固的屏蔽外壳
- 小尺寸
- 尺寸&管脚国际兼容
- 绕线式贴片封装

应用:

- 微波通信
- 第一代/第二代电台
- 雷达
- 微波收发模块

| 研通型号 | 指标描述 | 频率范围 (MHz) | 耦合度 (dB) | 损耗 (dB) | 方向性 (dB) | 驻波 | 最大功率 (W) |
|--------------------|--|------------|----------|---------|----------|-------|----------|
| YT-ADCB-20-82+ | 20.2dB SMT Bi-Directional Coupler, 1-800MHz | 1-800 | 20.2 | ≤0.3 | 24 | ≤1.2 | 1 |
| YT-SYDC-20-31HP+ | 20.5dB SMT Bi-Directional Coupler, 1.5-30mhz | 1.5-30 | 20.5 | ≤0.06 | 33 | ≤1.13 | 50 |
| YT-SYDC-20-61HP+ | 20db SMT Bi-Directional Coupler, 1.5-60mhz | 1.5-60 | 20 | ≤0.1 | 35 | ≤1.05 | 15 |
| YT-ADC-26-52+ | 26db SMT Directional Coupler, 10 - 500 MHz | 10-500 | 26 | ≤0.2 | 25 | ≤1.1 | 5 |
| YT-DBTC-7-152+ | 7 dB SMT Directional Coupler, 10 - 1500 MHz | 10-1500 | 7 | ≤2.2 | 32 | ≤1.4 | 0.5 |
| YT-SYBDC-15-52VHP+ | 15dB SMT Bi-Directional Coupler, 10-520MHz | 10-520 | 15 | ≤0.5 | 18 | ≤1.06 | 30 |
| YT-SYDC-10-62HP+ | 9.8dB SMT Bi-Directional Coupler, 10-600MHz | 10-600 | 9.8 | ≤0.9 | 23 | ≤1.2 | 20 |

宽带耦合器-绕线贴片式封装(替换MINI)



| 研通型号 | 指标描述 | 频率范围 (MHz) | 耦合度 (dB) | 损耗 (dB) | 方向性 (dB) | 驻波 | 最大功率 (W) |
|-------------------|--|------------|----------|---------|----------|-------|----------|
| YT-SYDC-18-23+ | 18db SMT Bi-Directional Coupler, 10 - 2000 MHz | 10-2000 | 18 | ≤0.7 | 20 | ≤1.25 | 2 |
| YT-SYDC-20-62HP+ | 19.8 dB SMT Bi-Directional Coupler, 10 - 540 MHz | 10-540 | 19.8 | ≤0.2 | 28 | ≤1.1 | 25 |
| YT-TCD-10-1W+ | 10.3 dB SMT Directional Coupler, 10 - 750 MHz | 10-750 | 10.3 | ≤1.2 | 18 | ≤1.3 | 1 |
| YT-ADC-20-12+ | 20 dB SMT Directional Coupler, 100- 1200 MHz | 100-1200 | 20 | ≤0.5 | 26 | ≤1.17 | 1 |
| YT-ADC-20-132+ | 20 dB SMT Directional Coupler, 100- 1300 MHz | 100-1300 | 20 | ≤0.4 | 22 | ≤1.43 | 4 |
| YT-SYBDC-15-13HP+ | 15.8dB SMT Bi-Directional Coupler, 100 - 1000MHz | 100-1000 | 15.8 | ≤0.75 | 20 | ≤1.15 | 10 |
| YT-SYDC-7-651HP+ | 7.3dbSMTDirectionalCoupler10-1500mhz,10-650MHz | 10-650 | 7.3 | ≤0.6 | 21 | ≤1.15 | 10 |
| YT-SYDC-10-42HP+ | 10dbSMTDirectionalCoupler10-1500mhz,10-400MHz | 10-400 | 10 | ≤0.4 | 18 | ≤1.1 | 16 |
| YT-SYD-20-33+ | 20.8 dB SMT Directional Coupler, 30 - 3000 MHz | 30-3000 | 20.8 | ≤1.6 | 15 | ≤1.2 | 1 |
| YT-SYDC-10-52VHP+ | 10 dB SMT Bi-Directional Coupler, 30 - 512 MHz | 30-512 | 10 | ≤1 | 19 | ≤1.18 | 35 |
| YT-SYDC20-171VHP+ | 20 dB SMT Directional Coupler, 30 - 174 MHz | 30-174 | 20 | ≤0.19 | 18 | ≤1.1 | 100 |
| YT-LRDC-20-2 | 20.5 dB SMT Directional Coupler, 300 - 1100 MHz | 300-1100 | 20.5 | ≤0.25 | 17 | ≤1.2 | 2 |
| YT-ADC-20-4+ | 20 dB SMT Directional Coupler, 5 - 1000 MHz | 5-1000 | 20 | ≤0.5 | 21 | ≤1.1 | 1 |
| YT-JDC-10-2 | 10 dB SMT Directional Coupler, 5 - 750 MHz | 5-750 | 10 | ≤1 | 20 | ≤1.13 | 1 |
| YT-JDC-10-4 | 10.5 dB SMT Directional Coupler, 5 - 1000 MHz | 5-1000 | 10.5 | ≤1.3 | 23 | ≤1.15 | 1 |
| YT-LRDC-10-1+ | 10.7 dB SMT Directional Coupler, 5- 500 MHz | 5-500 | 10.7 | ≤0.9 | 31 | ≤1.2 | 1 |
| YT-TCD-9-1W+ | 8.9 dB SMT Directional Coupler, 5 - 2000 MHz | 5-2000 | 8.9 | ≤1.5 | 17 | ≤1.5 | 1 |
| YT-TCD-12-222X+ | 12.6 dB SMT Directional Coupler, 5- 2250 MHz | 5-2250 | 12.6 | ≤2 | 10 | ≤1.43 | 1 |
| YT-TCD-13-4+ | 13 dB SMT Directional Coupler, 5 - 1000 MHz | 5-1000 | 13 | ≤0.7 | 18 | ≤1.2 | 1 |
| YT-TCD-17-282X+ | 17 dB SMT Directional Coupler, 5 - 2850 MHz | 5-2850 | 17 | ≤1.9 | 10 | ≤1.4 | 1 |
| YT-TCD-18-4X+ | 17.9 dB SMT Directional Coupler, 5 - 1000 MHz | 5-1000 | 17.9 | ≤0.7 | 20 | ≤1.2 | 1 |
| YT-TCD-20-4+ | 20 dB SMT Directional Coupler, 5 - 1000 MHz | 5-1000 | 20 | ≤0.4 | 21 | ≤1.2 | 1 |
| YT-DBTC-17-5+ | 17.2 dB SMT Directional Coupler, 50 - 2000 MHz | 50-2000 | 17.2 | ≤1 | 20 | ≤1.2 | 2 |
| YT-JDC-20-1W | 19.5 dB SMT Directional Coupler, 50 - 750 MHz | 50-750 | 19.5 | ≤0.5 | 22 | ≤1.2 | 0.5 |
| YT-JDC-20-5 | 20.5 dB SMT Directional Coupler, 50 - 1500 MHz | 50-1500 | 20.5 | ≤1 | 22 | ≤1.2 | 0.5 |
| YT-SEDC-10-63+ | 10 dB SMT Directional Coupler, 50 - 6000 MHz | 50-6000 | 10 | ≤4 | 27 | ≤1.5 | 1 |
| YT-SYDC-6-13HP+ | 5.6 dB SMT Directional Coupler, 50 - 1000 MHz | 50-1000 | 5.6 | ≤0.8 | 17 | ≤1.33 | 10 |

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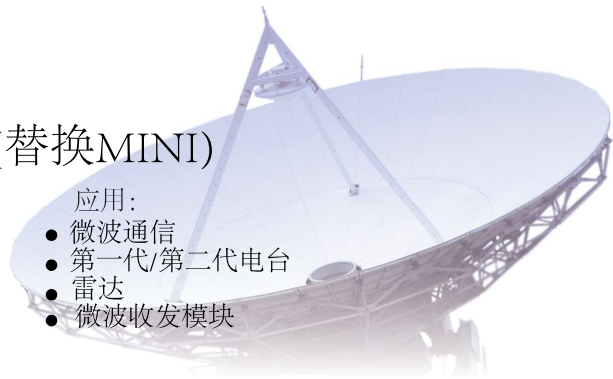
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宽带二路/四路功分器-绕线贴片式封装(替换MINI)



- 特性:
- 宽频带特性
 - 好的相位平衡度
 - 好的幅度平衡度
 - 坚固的屏蔽外壳
 - 小尺寸
 - 尺寸&管脚国际兼容
 - 绕线式贴片封装

- 应用:
- 微波通信
 - 第一代/第二代电台
 - 雷达
 - 微波收发模块



| 研通型号 | 通带频率 (MHz) | 隔离度 (dB) | 插入损耗 (dB) | 相位不平衡度(°) | 幅度不平衡度(°) | 功率输入(W) 最大分配器 | 输出口数 |
|------------------|------------|----------|-----------|-----------|-----------|------------------|------|
| YT-ADP-2-1+ | 0.5-400 | ≥25 | ≤4 | ≤2 | ≤0.2 | 0.5 | 2 |
| YT-ADP-2-1W | 1-650 | ≥30 | ≤4 | ≤2 | ≤0.2 | 2 | 2 |
| YT-ADP-2-4 | 10-1000 | ≥23 | ≤4 | ≤3 | ≤0.2 | 1 | 2 |
| YT-ADP-2-9+ | 200-900 | ≥27 | ≤4 | ≤2 | ≤0.3 | 0.5 | 2 |
| YT-ADP-2-10 | 5-1000 | ≥23 | ≤4 | ≤2 | ≤0.2 | 0.5 | 2 |
| YT-ADP-2-20 | 20-2000 | ≥18 | ≤4 | ≤3 | ≤0.3 | 1 | 2 |
| YT-JPS-2-1 | 1-100 | ≥30 | ≤4 | ≤2 | ≤0.2 | 1 | 2 |
| YT-JPS-2-1+ | 1-500 | ≥30 | ≤4 | ≤2 | ≤0.2 | 1 | 2 |
| YT-JPS-2-1N | 350-550 | ≥30 | ≤4 | ≤3 | ≤0.3 | 1 | 2 |
| YT-JPS-2-1W+ | 3-750 | ≥28 | ≤4 | ≤2 | ≤0.3 | 1 | 2 |
| YT-JPS-2-4+ | 100-1000 | ≥22 | ≤4 | ≤5 | ≤0.4 | 1 | 2 |
| YT-JPS-2-900+ | 400-900 | ≥24 | ≤4 | ≤3 | ≤0.4 | 1 | 2 |
| YT-LRPS-2-1+ | 5-500 | ≥33 | ≤4 | ≤2 | ≤0.2 | 1 | 2 |
| YT-LRPS-2-4J+ | 10-1000 | ≥23 | ≤4 | ≤3 | ≤0.2 | 1 | 2 |
| YT-LRPS-2-11+ | 20-2000 | ≥21 | ≤4 | ≤3 | ≤0.3 | 1 | 2 |
| YT-LRPS-2-25 | 1700-2500 | ≥20 | ≤4 | ≤10 | ≤0.9 | 1 | 2 |
| YT-LRPS-2-25+ | 1700-2500 | ≥20 | ≤4 | ≤10 | ≤0.9 | 1 | 2 |
| YT-LRPS-2-980+ | 800-980 | ≥30 | ≤4 | ≤3 | ≤0.5 | 1 | 2 |
| YT-RPS-2-30+ | 10-3000 | ≥22 | ≤4 | ≤4 | ≤0.6 | 0.5 | 2 |
| YT-SBTC-2-10+ | 5-1000 | ≥18 | ≤4 | ≤3 | ≤0.5 | 0.5 | 2 |
| YT-SBTC-2-20+ | 200-2000 | ≥20 | ≤4 | ≤10 | ≤0.8 | 0.5 | 2 |
| YT-SBTC-2-22-75+ | 500-2150 | ≥28 | ≤4 | ≤2 | ≤0.7 | 0.5 | 2 |
| YT-SBTC-2-25+ | 1000-2500 | ≥20 | ≤4 | ≤14 | ≤1.2 | 1 | 2 |
| YT-SBTC-2-25LX+ | 1000-2500 | ≥20 | ≤4 | ≤14 | ≤1.2 | 1 | 2 |
| YT-SCP-2-1+ | 0.1-400 | ≥30 | ≤4 | ≤2 | ≤0.2 | 1 | 2 |
| YT-SCP-2-1A+ | 1-550 | ≥25 | ≤4 | ≤2 | ≤0.2 | 1 | 2 |
| YT-SCR-2-682W+ | DC-6800 | ≥19 | ≤4 | ≤3 | ≤0.3 | 0.5 | 2 |
| YT-SYPS-2-1+ | 2-500 | ≥32 | ≤4 | ≤3 | ≤0.3 | 1 | 2 |
| YT-SYPS-2-22HP+ | 2-200 | ≥22 | ≤4 | ≤1.5 | ≤0.1 | 5 | 2 |

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宽带二路/四路功分器-绕线贴片式封装(替换MINI)

| 研通型号 | 通带频率 (MHz) | 隔离度 (dB) | 插入损耗 (dB) | 相位不平衡度(°) | 幅度不平衡度(°) | 功率输入(W) 最大分配器 | 输出口数 |
|-----------------|---------------|-------------|--------------|-----------|-----------|------------------|------|
| YT-SYPS-2-33+ | 400-3000 | ≥21 | ≤4 | ≤1 | ≤0.1 | 0.5 | 2 |
| YT-SYPS-2-52HP+ | 10-540 | ≥25 | ≤4 | ≤1.5 | ≤0.1 | 15 | 2 |
| YT-SYPS-2-252+ | 5-2500 | ≥18 | ≤4 | ≤3 | ≤0.3 | 0.5 | 2 |
| YT-TCP-2-10+ | 5-1000 | ≥25 | ≤4 | ≤4 | ≤0.6 | 0.5 | 2 |
| YT-TCP-2-25+ | 200-2500 | ≥18 | ≤4 | ≤6 | ≤0.6 | 0.5 | 2 |
| YT-TCP-2-33+ | 1000-3000 | ≥18 | ≤4 | ≤5 | ≤0.9 | 0.5 | 2 |
| YT-TCP-2-33W+ | 50-3000 | ≥21 | ≤4 | ≤1.6 | ≤0.4 | 0.5 | 2 |
| YT-TCP-2-33X+ | 1000-3000 | ≥18 | ≤4 | ≤5 | ≤0.9 | 0.5 | 2 |
| YT-TCP-2-272+ | 5-2700 | ≥20 | ≤4 | ≤2 | ≤0.3 | 0.5 | 2 |
| YT-AD3PS-1+ | 1-300 | ≥35 | ≤6 | ≤4 | ≤0.3 | 0.5 | 3 |
| YT-JPS-3-1+ | 5-300 | ≥33 | ≤6 | ≤4 | ≤0.4 | 1 | 3 |
| YT-JPS-3-1W+ | 50-750 | ≥26 | ≤6 | ≤7 | ≤0.6 | 1 | 3 |
| YT-LRPS-3-1 | 10-300 | ≥25 | ≤6 | ≤3 | ≤0.3 | 1 | 3 |
| YT-LRPS-3-1J+ | 10-300 | ≥25 | ≤6 | ≤3 | ≤0.3 | 1 | 3 |
| YT-LRPS-3-850+ | 500-850 | ≥23 | ≤6 | ≤8 | ≤0.9 | 1 | 3 |
| YT-SCA-3-11+ | 100-940 | ≥20 | ≤6 | ≤7 | ≤0.7 | 0.5 | 3 |
| YT-SCP-3-1+ | 1-300 | ≥25 | ≤6 | ≤2 | ≤0.15 | 1 | 3 |
| YT-SYPS-3-12W+ | 20-1200 | ≥22 | ≤6 | ≤4 | ≤0.7 | 1 | 3 |
| YT-SYPS-3-142W+ | 5-1450 | ≥19 | ≤6 | ≤5 | ≤0.5 | 1 | 3 |
| YT-AD4PS-1+ | 1-500 | ≥30 | ≤7 | ≤5 | ≤0.5 | 0.5 | 4 |
| YT-JS4PS-1 | 80-520 | ≥36 | ≤7 | ≤5 | ≤0.5 | 0.75 | 4 |
| YT-JS4PS-1W+ | 5-1000 | ≥26 | ≤7 | ≤5 | ≤0.7 | 0.5 | 4 |
| YT-SC4PS-33+ | 300-3000 | ≥17 | ≤7 | ≤7 | ≤0.4 | 1 | 4 |
| YT-SCA-4-132+ | 5-1300 | ≥21 | ≤7 | ≤8 | ≤0.9 | 0.5 | 4 |
| YT-SCP-4-1+ | 1-400 | ≥26 | ≤7 | ≤4 | ≤0.3 | 1 | 4 |
| YT-SCP-4-1W+ | 10-650 | ≥23 | ≤7 | ≤7 | ≤0.4 | 1 | 4 |
| YT-SCP-4-4+ | 800-1000 | ≥24 | ≤7 | ≤12 | ≤1 | 1 | 4 |
| YT-SCPS-4-62+ | 1-650 | ≥26 | ≤7 | 2 | ≤0.3 | 1 | 4 |
| YT-SRSC-4-63+ | DC-6000 | ≥7 | ≤7 | ≤14 | ≤1.2 | 0.2 | 4 |
| YT-AD5PS-1+ | 1-400 | ≥25 | ≤8 | ≤6 | ≤0.4 | 0.5 | 5 |
| YT-SCP-5-1+ | 2-200 | ≥29 | ≤8 | ≤3 | ≤0.3 | 1 | 5 |
| YT-AD6PS-1+ | 2-250 | ≥30 | ≤9.5 | ≤6 | ≤0.4 | 0.5 | 6 |
| YT-JCPS-6-3 | 75-425 | ≥23 | ≤9.5 | ≤9 | ≤0.7 | 0.25 | 6 |
| YT-JCPS-8-850 | 10-850 | ≥25 | ≤11.5 | ≤10 | ≤0.7 | 1 | 8 |
| YT-JCPS-8-850+ | 10-850 | ≥25 | ≤11.5 | ≤10 | ≤0.7 | 1 | 8 |
| YT-SEPS-8-272+ | 700-2700 | ≥20 | ≤1.8 | ≤7 | ≤1 | 5 | 8 |
| YT-JEPS-12-10 | 50-1000 | ≥25 | ≤14 | ≤15 | ≤1.2 | 0.5 | 12 |
| YT-JEPS-16-1W+ | 5-1000 | ≥23 | ≤15 | ≤13 | ≤1.2 | 0.5 | 16 |

Non-abrupt Change Variable Attenuator

无突变可变衰减器

VAS Series, Step 步进式 (DC ~ 6GHz)

International patent product

China Patent No.: CN 2008 8 0001111

USA Patent No.: US 8,212,648 B2

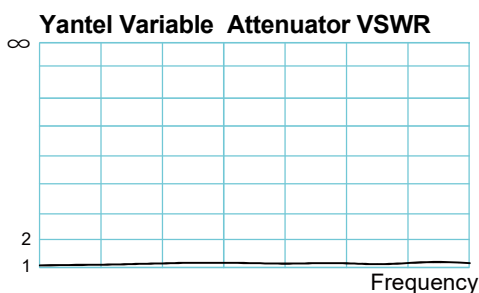
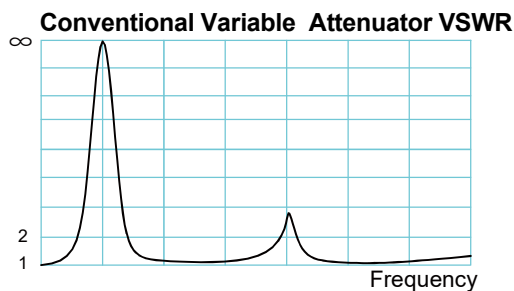
EU Patent No.: EP2190116A4



Features

- Using advanced microstrip technology, ultra-small size
- High RF performance, ultra-competitive price
- Wide frequency range: DC to 6 GHz
- Low VSWR :1.1 ~ 1.5
- Low attenuation tolerance, low insertion loss.
- Adjusting the transmitting (receiving) distance of RF signal precisely. Adjusting accuracy is limited to 5cm.
- Wide attenuation values available are 1, 2, 3, 4, 5, 6, 8, 9, 10 and 12 dB.
- High adjustment accuracy
- Power rating: 2W, 5W
- Impedance: 50Ω or 75Ω
- Switch repeatability avg.>10000 operations(5000 cycles) per switch.
- PC(Polycarbonate) switch, operating temperature up to 120 °C
- It adopts an innovative technology, and thus it eliminates sudden big reflection in attenuators when attenuation is being adjusted, preventing the preliminary RF circuit(such as power amplifier) from being burnt, and keeping the system stable.
- Attenuation values are adjustable in power-on state, test data can be read continuously, no interruption.
- Connector Type: SMA, N, F, BNC etc. available
- Connector Position: Back Connectors or Left & right Connectors

■ Abrupt change of reflection occurs in conventional variable attenuator when adjusting attenuation, resulted in RF Power Amplifier being burnt.



Applications

- DAS POI
- Indoor Repeater
- Wireless Signal Coverage
- Mobile communication repeater station system
- Signal emitter inside buildings
- WLAN repeater station system
- Radar
- Lab test

Model Description

| | | | | |
|------|-------------------|------------------|--------------------|-----------|
| VAS | ** | ** | ** | * |
| Type | Attenuation Range | Step Values | Connector Type | |
| | * | * | * | * |
| | Max. Power | Connector Option | Connector Position | Impedance |

Notes:
 Type: 06 represents type number.
 Attenuation Range: Maximum attenuation
 Connector Type: SMA, N, F, BNC etc.
 Max. Power: 2 and 5 are available, currently 2W and 5W are available.
 Connector Option: "1" represents Female/Female, "2" represents Male/Female, "3" represents Male/Male.
 Connector Position: "A" represents back connectors, without "A" represents left and right connectors.
 Impedance: "B" represents 75Ω impedance, "no code" represents 50Ω impedance.

Specifications:

- N Type, DC~3GHz, 2W or 5W
- SMA Type, DC~4GHz or DC~5.8GHz, 2W or 5W



| Model | Attenuation Range (dB) | Step Values (dB) | Attenuation Accuracy Full Scale (dB) | | Typical VSWR:(1) | | Max. VSWR :(1) | | Insertion Loss at 0 dB | Connector Type SMA/N/F/BNC Size (mm) for SMA/N | Package Type | | | | | |
|---|------------------------|------------------|--------------------------------------|--------|------------------|--------|----------------|--------|---|--|--------------|-------|---------------------------------|-----------------|--|--|
| | | | DC ~ 3GHz | 3-6GHz | DC~3GHz | 3-6GHz | DC~3GHz | 3-6GHz | | | 3GHz | L*W*H | Left & right Connectors | Back Connectors | | |
| 2 switches, DC~6GHz, Average Power 2W or 5W, Impedance 50Ω or 75Ω^②, N type available | | | | | | | | | | | | | | | | |
| VAS060903S2** | 0 to 9 | 3 | 0~+1.2 | 1.3 | 1.5 | 1.35 | 1.6 | 0.65 | 51.1*23*10.5/ 81.4*32*16.0 | | | | | | | |
| VAS061806S2** | 0 to 18 | 6 | 0~+0.8 | 1.15 | 1.3 | 1.2 | 1.5 | 0.4 | | | | | | | | |
| VAS062010S2** | 0 to 20 | 10 | 0~+1.0 | 1.1 | 1.3 | 1.1 | 1.5 | 0.4 | | | | | | | | |
| 3 switches, DC~6GHz, Average Power 2W or 5W, Impedance 50Ω or 75Ω^②, N type available | | | | | | | | | | | | | | | | |
| VAS062103S2** | 0 to 21 | 3 | 0~+1.2 | 1.15 | 1.35 | 1.2 | 1.5 | 0.5 | 57.3*23*10.5/ 87.6*32*16.0 | | | | | | | |
| VAS062505S2** | 0 to 25 | 5 | 0~+1.1 | 1.15 | 1.35 | 1.2 | 1.5 | 0.5 | | | | | | | | |
| VAS063010S2** | 0 to 30 | 10 | 0~+1.0 | 1.1 | 1.3 | 1.2 | 1.5 | 0.5 | | | | | | | | |
| 4 switches, DC~6GHz, Average Power 2W or 5W, Impedance 50Ω or 75Ω^②, N type available | | | | | | | | | | | | | | | | |
| VAS061501S2** | 0 to 15 | 1 | 0~+1.55 | 1.15 | - | 1.35 | - | 1.0 | 54.4*23*20.9/ 65.5*23*10.5/ 95.8*32*16.0 | | | | | | | |
| VAS061501S5** | 0 to 15 | 1 | 0~+1.75 | 1.25 | - | 1.45 | - | 1.1 | | | | | | | | |
| VAS061501S5A* | 0 to 15 | 1 | 0~+1.75 | 1.25 | - | 1.45 | - | 1.1 | | | | | | | | |
| VAS062402S2** | 0 to 24 | 2 | 0~+1.4 | 1.1 | 1.3 | 1.2 | 1.5 | 0.7 | | | | | | | | |
| VAS063003S2** | 0 to 30 | 3 | 0~+1.0 | 1.15 | 1.35 | 1.2 | 1.5 | 0.7 | | | | | | | | |
| VAS063505S2** | 0 to 35 | 5 | 0~+0.9 | 1.15 | 1.35 | 1.3 | 1.5 | 0.7 | | | | | | | | |
| VAS064010S2** | 0 to 40 | 10 | 0~+1.0 | 1.1 | 1.15 | 1.2 | 1.3 | 0.7 | | | | | | | | |
| 6 switches, DC~6GHz, Average Power 2W or 5W, Impedance 50Ω or 75Ω^②, N type available | | | | | | | | | | | | | | | | |
| VAS0404H5S21** | 0 to 4.5 | 0.1 | 0~+1.0 | 1.25 | - | 1.3 | - | 0.7 | 87.9*25*10.5/ 70.2*27*22.4/ 118.2*32*16.0 | | | | | | | |
| VAS068P4P2S2** | 0 to 8.4 | 0.2 | 0~+2.0 | 1.2 | 1.8 | 1.3 | 1.5 | 1.2 | | | | | | | | |
| VAS0625HS2** | 0 to 25.5 | 0.5 | 0~+2.0 | 1.3 | 1.5 | 1.35 | 1.6 | 1.2 | | | | | | | | |
| VAS063501S2** | 0 to 35 | 1 | 0~+2.0 | 1.25 | - | 1.45 | - | 1.3 | | | | | | | | |
| VAS063501S5** | 0 to 35 | 1 | 0~+2.0 | 1.25 | - | 1.45 | - | 1.3 | | | | | | | | |
| VAS064001S5** | 0 to 40 | 1 | 0~+2.0 | 1.25 | - | 1.45 | - | 1.3 | | | | | | | | |
| VAS064501S2** | 0 to 45 | 1 | 0~+2.0 | 1.25 | - | 1.45 | - | 1.3 | | | | | | | | |
| VAS064402S2** | 0 to 44 | 2 | 0~+1.8 | 1.2 | 1.4 | 1.3 | 1.5 | 1.2 | | | | | | | | |
| VAS064503S2** | 0 to 45 | 3 | 0~+1.5 | 1.2 | 1.4 | 1.3 | 1.5 | 1.2 | | | | | | | | |
| VAS065505S2** | 0 to 55 | 5 | 0~+2.0 | 1.15 | - | 1.3 | 1.5 | 1.3 | | | | | | | | |
| VAS066010S2** | 0 to 60 | 10 | -1.5~+2.0 | 1.2 | - | 1.4 | - | 1.4 | | | | | | | | |
| 9 switches, DC~6GHz, Average Power 2W or 5W, Impedance 50Ω or 75Ω^②, N type available | | | | | | | | | | | | | | | | |
| VAS0636P2** | 0 to 36.4 | 0.2 | 0~+3.5 | 1.2 | 1.4 | 1.3 | 1.5 | 1.8 | 116.5*25*10.5/ 146.8*32*16.0 | | | | | | | |
| VAS0655HS2** | 0 to 55.5 | 0.5 | 0~+2.0 | 1.2 | 1.4 | 1.3 | 1.6 | 1.8 | | | | | | | | |
| VAS036501F** | 0 to 65 | 1 | 0~+2.0 | 1.5 | - | 1.8 | - | 1.2 | | | | | | | | |
| VAS066501S2** | 0 to 65 | 1 | 0~+3.5 | 1.3 | - | 1.5 | - | 2.0 | | | | | | | | |
| VAS067402S2** | 0 to 74 | 2 | 0~+2.0 | 1.15 | 1.35 | 1.2 | 1.5 | 1.8 | | | | | | | | |
| VAS067203S2** | 0 to 72 | 3 | 0~+3.5 | 1.2 | 1.4 | 1.3 | 1.6 | 2.3 | | | | | | | | |
| VAS068505S2** | 0 to 85 | 5 | 0~+2.0 | 1.2 | 1.4 | 1.3 | 1.6 | 1.8 | | | | | | | | |
| VAS069010S2** | 0 to 90 | 10 | 0~+3.0 | 1.2 | 1.3 | 1.3 | 1.5 | 2.0 | | | | | | | | |
| 12 switches, DC~6GHz, Average Power 2W or 5W, Impedance 50Ω or 75Ω^②, N type available | | | | | | | | | | | | | | | | |
| VAS069501S2** | 0 to 95 | 1 | 0~+3.0 | 1.15 | - | 1.35 | - | 2.5 | | | | | 117.6*27*22.4/ 128.8*27*11.7 | | | |
| VAS069501S5** | 0 to 95 | 1 | ±2.5 | 1.2 | - | 1.4 | - | 1.5 | | | | | | | | |
| VAS0610001S2** | 0 to 100 | 1 | 0~+3.0 | 1.15 | - | 1.35 | - | 2.5 | | | | | | | | |
| VAS0610001S2A* | 0 to 100 | 1 | 0~+3.0 | 1.15 | - | 1.35 | - | 2.5 | | | | | | | | |
| VAS0611001S2** | 0 to 110 | 1 | ±3.0 | 1.15 | - | 1.35 | - | 2.2 | | | | | | | | |

* Plastic screw driver for adjusting attenuation

- N Type, DC~5.8GHz, High attenuation accuracy, 2W or 5W
- SMA Type, DC~5.8GHz, High attenuation accuracy, 2W or 5W



| Model | Attenuation Range (dB) | Step Values (dB) | Attenuation Accuracy Full Scale (dB) | | Typical VSWR:(1) | | Max. VSWR :(1) | | Insertion Loss at 0 dB | Connector Type SMA/N/F/BNC Size (mm) for SMA/N | Package Type |
|--|------------------------|------------------|--------------------------------------|-----------|------------------|----------|----------------|----------|------------------------|--|---------------------------------------|
| | | | DC~4GHz | 4~5.8GHz | DC~4GHz | 4~5.8GHz | DC~4GHz | 4~5.8GHz | | | |
| 4 switches, DC~5.8GHz, Average Power 2W or 5W, Impedance 50Ω or 75Ω^② | | | | | | | | | | | |
| VAS071501*5** | 0 to 15 | 1 | -1.0~+2.0 | 0~+4.5 | 1.20 | 1.30 | 1.30 | 1.65 | 1.2 | 2.0 | 46.4*23*11.15(SMA) 47*28*19.5(N) |
| VAS072402*5** | 0 to 24 | 2 | -1.1~+2.1 | 0~+6.5 | 1.20 | 1.30 | 1.40 | 1.65 | 0.8 | 1.25 | |
| VAS073505*5** | 0 to 35 | 5 | -1.1~+2.1 | 0~+6.5 | 1.20 | 1.30 | 1.40 | 1.65 | 0.8 | 1.25 | |
| VAS074010*5** | 0 to 40 | 10 | -1.2~+3.0 | 0~+6.5 | 1.30 | 1.30 | 1.65 | 1.65 | 0.8 | 1.25 | |
| 6 switches, DC~5.8GHz, Average Power 2W or 5W, Impedance 50Ω or 75Ω^② | | | | | | | | | | | |
| VAS073501*2** | 0 to 35 | 1 | 0~+3.0 | 0~+6.0 | 1.20 | 1.35 | 1.45 | 1.65 | 1.7 | 3.2 | 62.2*25*11.65(SMA) 63*28*19.5(N) |
| VAS073501*5** | 0 to 35 | 1 | -1.0~+3.5 | 0~+7.0 | 1.20 | 1.30 | 1.40 | 1.65 | 1.4 | 1.5 | |
| VAS074402*2** | 0 to 44 | 2 | -1.6~+3.5 | -4.0~+10 | 1.25 | 1.30 | 1.50 | 1.65 | 1.2 | 2.0 | |
| VAS074503*5** | 0 to 45 | 3 | -1.5~+4.5 | 0~+10 | 1.30 | 1.40 | 1.60 | 1.75 | 1.0 | 1.5 | |
| VAS0725H*2** | 0 to 25.5 | 0.5 | 0~+3.5 | 0~+6.0 | 1.20 | 1.35 | 1.45 | 1.65 | 1.7 | 3.2 | |
| 7 switches, DC~5.8GHz, Average Power 2W or 5W, Impedance 50Ω or 75Ω^② | | | | | | | | | | | |
| VAS074501*2** | 0 to 45 | 1 | -0.3~+3.5 | -6.0~+6.0 | 1.20 | 1.30 | 1.50 | 1.55 | 2.2 | 3.5 | 70.9*28*19.5(N) |
| VAS074501*5** | 0 to 45 | 1 | -1.0~+3.0 | 0~+6.0 | 1.25 | 1.35 | 1.50 | 1.65 | 1.8 | 3.2 | |
| 9 switches, DC~5.8GHz, Average Power 2W or 5W, Impedance 50Ω or 75Ω^② | | | | | | | | | | | |
| VAS076501*2** | 0 to 65 | 1 | 0~+3.5 | -2.0~+7.0 | 1.10 | 1.25 | 1.35 | 1.55 | 2.6 | 4.2 | 85.5*25*11.65(SMA) 86.6*28*19.5(N) |
| VAS076501*5** | 0 to 65 | 1 | -1~+3.0 | -1.0~+6.0 | 1.25 | 1.35 | 1.50 | 1.70 | 1.5 | 2.5 | |
| VAS077402*2** | 0 to 74 | 2 | 0~+3.5 | -2.0~+7.0 | 1.10 | 1.25 | 1.35 | 1.60 | 2.6 | 4.2 | |
| VAS077402*5** | 0 to 74 | 2 | -2~+3.5 | -2.0~+7.0 | 1.10 | 1.25 | 1.50 | 1.70 | 1.5 | 2.5 | |
| VAS079010*2** | 0 to 90 | 10 | 0~+3.0 | -5.0~+5.0 | 1.10 | 1.25 | 1.35 | 1.55 | 3.0 | 5.5 | |
| VAS079010*5** | 0 to 90 | 10 | -2~+3.0 | -5.0~+5.0 | 1.10 | 1.25 | 1.50 | 1.70 | 1.5 | 2.5 | |

Note: ① For detailed specifications of 75 ohm attenuator, please check with our sales representatives. ② Custom attenuation value is available.

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Rotary Variable Attenuator 旋钮式可变衰减器 VAB Series (Step步进式)

Patent product

China Patent No.: ZL 2008 1 0144258.3
USA Patent No.: US 8,476,544 B2
Japan Patent No.: 2011-524168
Taiwan Patent No.: I 393347



Features

- Input power: 2W, 5W
- Available in step adjusting
- Wide frequency range: DC ~2.7GHz
- Low VSWR, Low insertion loss
- Sealed structure moisture-proof & damp-proof, can be work outdoors in harsh condition
- Easy to operate, adjustment results visually readable
- Step series has locking devices within each attenuation, shock-proof capability
- Can reach over 10000 times adjustment.
- Easy to adjust, widely used in production line, or to be installed in the system & device for signal control

Applications

- DAS POI
- Indoor Repeater
- Wireless Signal Coverage
- RF Labs

Model Description (Step Variable Attenuator)

VAB ** ** * * * *
Attenuation Step value Connector Type Connector Position Power Impedance

Attenuation Range: 31 represents 0 ~ 31dB

Step value: 01 represents step value 1dB

Connector Type: SMA,N or BNC etc

Connector Position: "F" represents connectors is upsides, "R" represents connectors is rightsides

"L" represents connectors is leftsides, "D" represents connectors is undersides

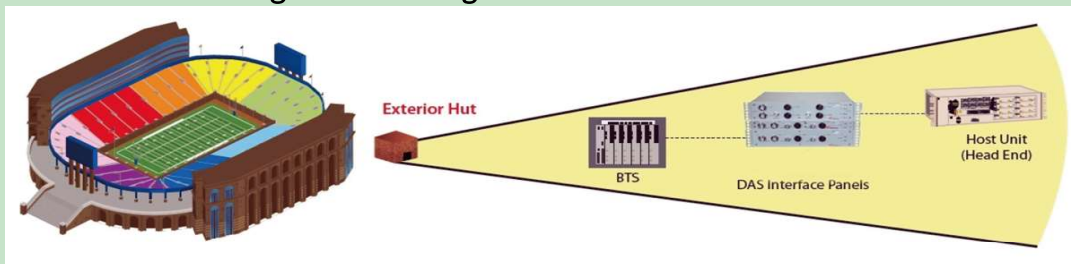
"A" or "S" or "B" represents back connectors, "no code" represents left and right connectors.

Power: 2 represents 2W, 5 represents 5W

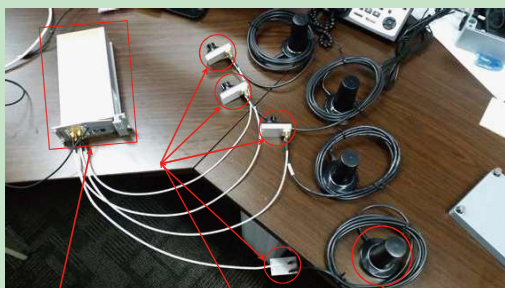
Impedance: Impedance: "B" represents 75 Ω impedance, "no code" represents 50 Ω impedance.

e.g.: VAB1101SA

Wireless Signal Coverage in Offices/Hotels/Stadiums etc.



Latest LTE Smartphone MIMO 4*4 Antenna test system



Inserted Inside is the Latest LTE Smartphone with Four Antennas

Yantel VAB (Rotary Variable Attenuator)

Smartphone Antenna

Innovative rear connector versions making the smallest and most compact P.O.I. systems



SMA & N Type Single and Dual Concentric Series(back connectors)

- Frequency range: DC ~ 2.7GHz • Attenuation Range: 0-11(dB), 0-31(dB), 0-51(dB)
- Power rating: 2W or 5W • Impedance: 50Ω • Operating temperature: -40°C ~ +85°C

| Model | Attenuation Range (dB) | Power (W) | Step Value (dB) | Attenuation Accuracy (dB) DC - 2.7GHz | Typ. VSWR:1 | | | Insertion Loss at 0dB | | Dimensions SMA type (unit:mm) W*H*L |
|------------|------------------------|-----------|-----------------|--|-------------|---------|------------|-----------------------|------------|--|
| | | | | | DC - 1GHz | 1- 2GHz | 2 - 2.7GHz | DC - 2GHz | 2 - 2.7GHz | |
| VAB1101SA* | 0~11 | 2 or 5 | 1 | -0.5~+0.7 | 1.1 | 1.1 | 1.15 | 0.2 | 0.4 | 32*34.8*39 |
| VAB3101SB* | 0~31 | 2 or 5 | 1 | ±1 | 1.1 | 1.25 | 1.35 | 0.5 | 0.9 | 32*73.53*40 |
| VAB3101SA* | 0~31 | 2 or 5 | 1 | ±0.65 | 1.1 | 1.1 | 1.15 | 0.3 | 0.65 | 32*34.35*53.6 |
| VAB3101SS* | 0~31 | 2 or 5 | 1 | -0.5~+0.8 | 1.1 | 1.15 | 1.2 | 0.5 | 0.65 | 34*34.1*57.2 |
| VAB5101SA* | 0~51 | 2 or 5 | 1 | -0.65~+1 | 1.15 | 1.2 | 1.25 | 0.55 | 0.85 | 47.8*34.35*53 |
| VAB1101NA* | 0~11 | 2 or 5 | 1 | +1.5 | 1.1 | 1.1 | 1.35 | 0.5 | 1.0 | 44*34.5*48.5 |
| VAB3101NA* | 0~31 | 2 or 5 | 1 | +1.5 | 1.1 | 1.15 | 1.45 | 0.7 | 1.2 | 48*34.1*64 |

SMA & N Type Single Dial Series(left and right connectors)

- Frequency range: DC ~ 2.7GHz • Attenuation Range: 0-11(dB), 0-31(dB), 0-51(dB)
- Power rating: 2W or 5W • Impedance: 50Ω • Operating temperature: -40°C ~ +85°C

| Model | Attenuation Range (dB) | Power (W) | Step Value (dB) | Attenuation Accuracy (dB) DC - 2.7GHz | Typ. VSWR:1 | | | Insertion Loss at 0dB | | Dimensions SMA type (unit:mm) W*H*L |
|------------|------------------------|-----------|-----------------|--|-------------|---------|------------|-----------------------|------------|--|
| | | | | | DC - 1GHz | 1- 2GHz | 2 - 2.7GHz | DC - 2GHz | 2 - 2.7GHz | |
| VAB1101S** | 0~11 | 2 or 5 | 1 | +1.5 | 1.1 | 1.1 | 1.35 | 0.5 | 1.0 | 41*35.15*42.5 |
| VAB3101S** | 0~31 | 2 or 5 | 1 | -0.5~+0.8 | 1.1 | 1.15 | 1.2 | 0.5 | 0.65 | 34.8*34.35*53 |
| VAB5101S** | 0~51 | 2 or 5 | 1 | -0.65~+1.0 | 1.15 | 1.2 | 1.25 | 0.55 | 0.85 | 49.4*34.35*52 |
| VAB1101N** | 0~11 | 2 or 5 | 1 | +1.5 | 1.1 | 1.1 | 1.35 | 0.5 | 1.0 | 44*39.2*48.5 |
| VAB3101N** | 0~31 | 2 or 5 | 1 | -0.5~+1 | 1.1 | 1.1 | 1.15 | 0.3 | 0.65 | 38.2*39*54 |
| VAB5101N** | 0~51 | 2 or 5 | 1 | -0.65~+1.5 | 1.15 | 1.2 | 1.25 | 1.25 | 1.4 | 51.8*39*53 |

SMA Type Single and Dual Concentric Series

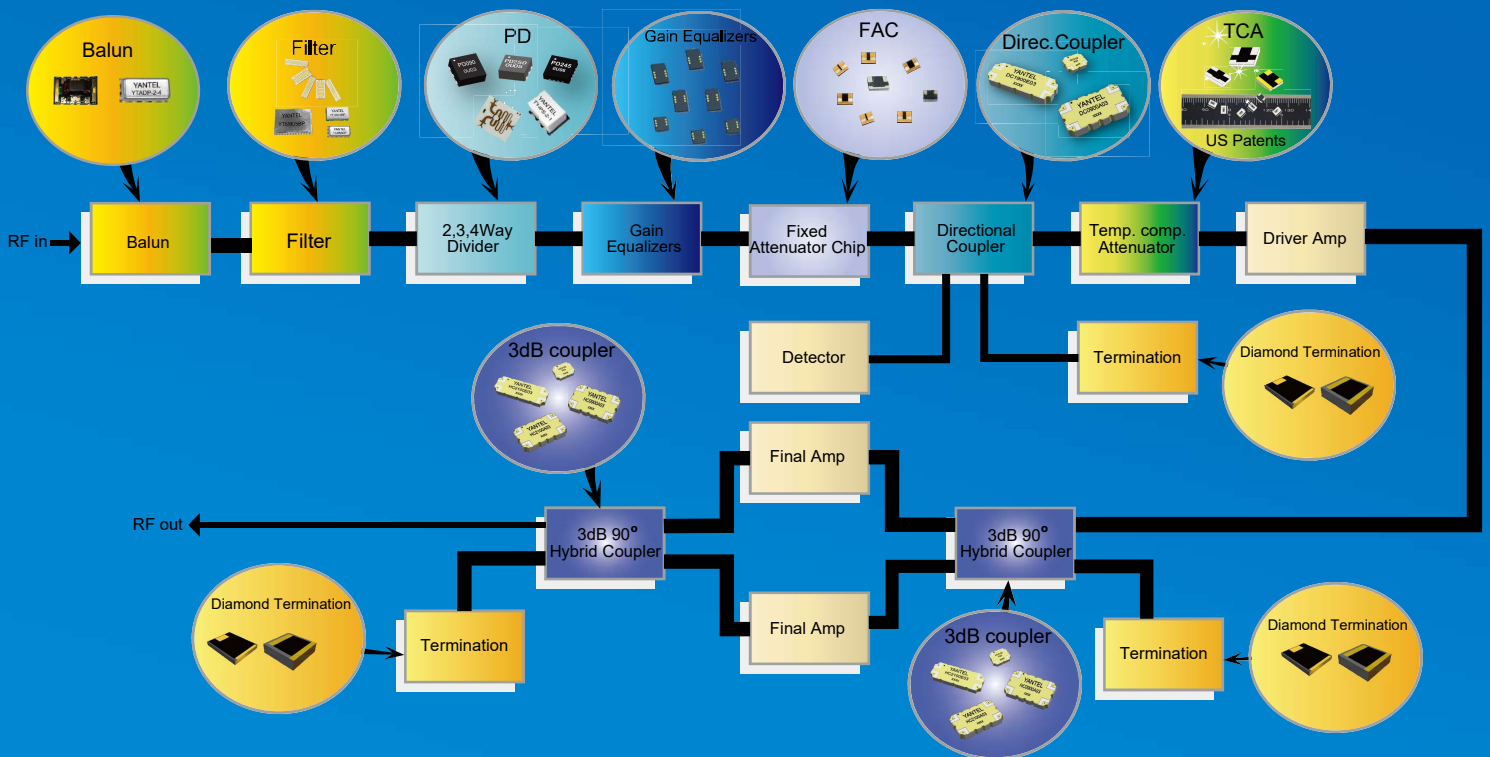
- Frequency range: DC ~ 2.7GHz • Attenuation Range: 0-11(dB) or 0-31(dB)
- Power rating: 2W or 5W • Impedance: 50Ω • Operating temperature: -40°C ~ +85°C

| Model | Attenuation Range (dB) | Power (W) | Step Value (dB) | Attenuation Accuracy (dB) | | Typ. VSWR:1 | | | Insertion Loss at 0dB | | Dimensions SMA type (unit:mm) W*H*L |
|-------------|------------------------|-----------|-----------------|---------------------------|-----------|-------------|--------|----------|-----------------------|----------|--|
| | | | | DC~2.5GHz | DC~2.7GHz | DC~1GHz | 1~2GHz | 2~2.7GHz | DC~2GHz | 2~2.7GHz | |
| VAB1101SF** | 0~11 | 2 or 5 | 1 | ±0.5 | -0.5~+0.7 | 1.1 | 1.1 | 1.15 | 0.2 | 0.4 | 32*37.35*39 |
| VAB3101SF** | 0~31 | 2 or 5 | 1 | ±0.7 | -0.7~+0.9 | 1.15 | 1.2 | 1.25 | 0.3 | 0.6 | 32*80*39 |



Key Patents Lead Microwave Tech

Passive Solutions of RF & Microwave Systems



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• Scan two-dimensional code into the official website



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