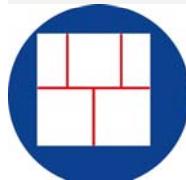
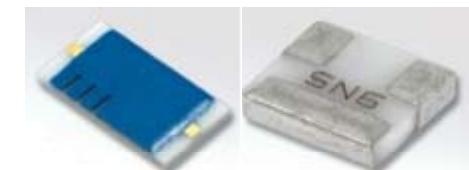
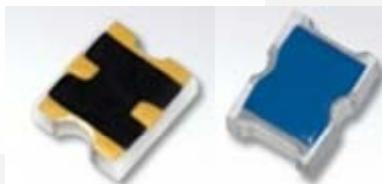


Temperature Compensation Attenuator

USA ,Europe, China, Korea, Taiwan
Invention Patents



Yantel

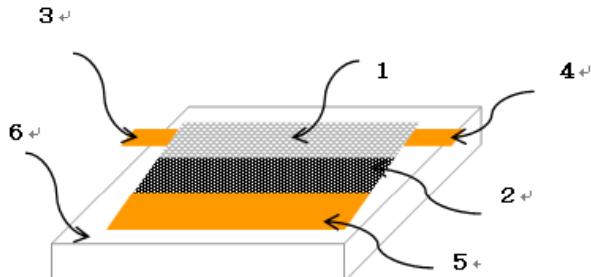
www.yantel-corp.com



Structure Diagram:

Application Theory:

When temperature compensation attenuator is applied to high frequency & microwave active circuit, losses such as the gain of output power frequency characteristics caused by temperature change can be largely compensated.



Technological Innovation :

1) Unique temperature compensation circuit configuration;

With innovative microstrip circuit configuration, Yantel temperature compensation attenuator have more advantages over traditional circuit equivalents for applications requiring wide frequency band, high power and big attenuation.

Yantel technologically innovative RF components enjoy internationally excellent RF performance comprehensive international patent production and the complete series .Besides frequency point 20GHz, one works very well and the attenuation compensation by temperature change is 2 times bigger than other equivalent.

2) Professional RF circuit design & excellent RF characteristics satisfying the need of national defense and military market such as mobile communication systems ,radar ,SATCOM and microwave communication ;

Serialization is adapted including total seven series and over 300P/n. Frequency band includes DC-6GHz, DC-12GHz, DC-18GHz, DC-20GHz and 16-36GHz; Attenuation varies from 1dB to 10dB and every attenuation has at least 7 kinds of slopes ; Rated power can be chosen form 100mW,200mW,2W and 5W(the max average power for global SMT product series).

3) Yantel passive component guarantees real time and accurate gain compensation for RF PA without extra IP3;

4) Green temp. comp. attenuator is available of which the lead content directly complys to RoHs requirement;

Key Patents

★ US Utility Patents(all granted)

US7,362,196 B2

US7, 528,677 B2

US7,629,861 B2

US7,990,230 B2

★ European Patent (granted)

1750369

★ Chinese Invention Patent(granted)

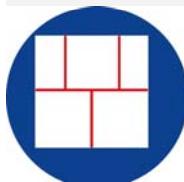
#ZL200410027307.7

★ Republic of Korea Patent(granted)

10-0956103

★ Taiwan Patent(granted)

I 257110

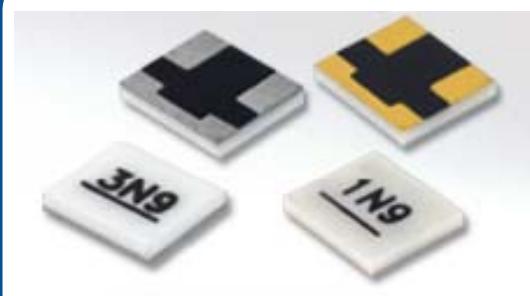


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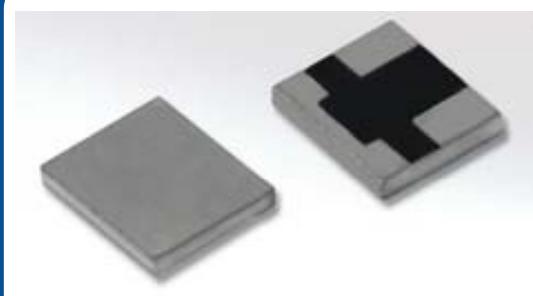
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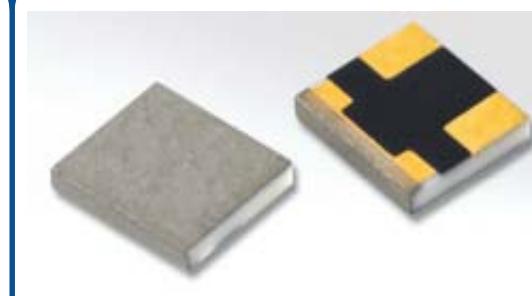
Yantel Complete Series



DC~6GHz、DC~12.4GHz、
DC~18GHz , 200mW、2W
Gold Terminal, planar & Tin Terminal,
planar



DC~6GHz、DC~12.4GHz
100mW、200mW、2W
Tin terminal, single wrap for ground
only



DC~6GHz、DC~12.4GHz
100mW、200mW、2W
Gold terminal, single wrap for ground
only



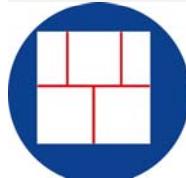
DC~6GHz、DC~12.4GHz
100mW、200mW、2W
Tin terminal, tripe wrap



DC~20GHz、200mW
Thin film & thick film
Gold/tin terminal, single wrap for
ground only



16~36GHz, 200mW
Thin film & thick film
Gold/tin terminal, single wrap for
ground only



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Applications:



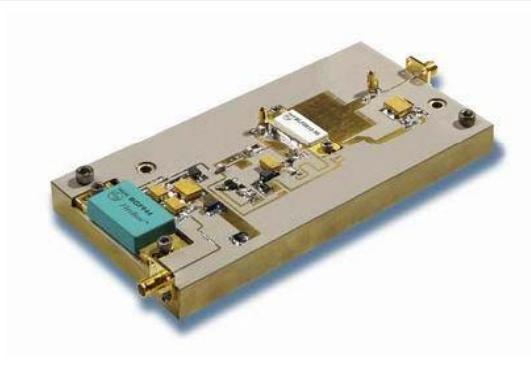
Satellite Communication



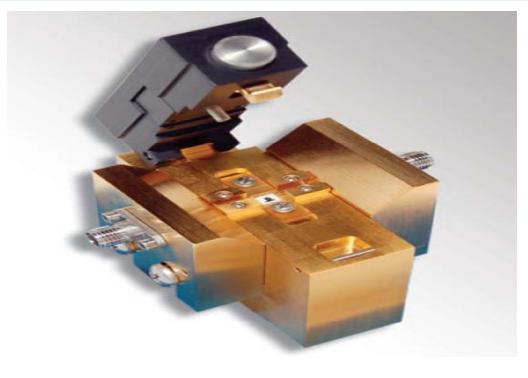
Wireless & Microwave
Communication



Phase Array Radar



TR Component、PA Module



RF Passive Module



Aerospace

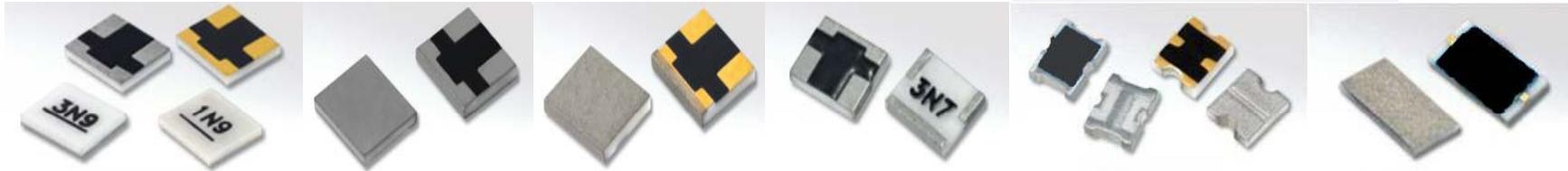


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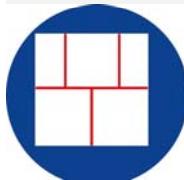
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Temperature Compensation Attenuator



| | |
|-------------|---|
| TCA | DC~6GHz, 2W, 50 Ohms |
| STCA | DC~6GHz, 100mW, 50 Ohms, 0805 size |
| MTCA | DC~12.4GHz, 200mW, 50 Ohms |
| HTCA | DC~18GHz, 200mW, 50 Ohms |
| WTCA | DC~20GHz, 200mW, 500mW, 50 Ohms |
| KTCA | 16~36GHz, 200mW, 50 Ohms |
| BTCA | DC~6GHz, 2W, 75 Ohms |
| BSTCA | DC~6GHz, 100mW, 75 Ohms, 0805 size |
| PTCA | DC~3GHz, 2W, 50 Ohms (positive temp. comp. coefficient) |
| ETCA | DC~3GHz, 2W, 50 Ohms (N10~N16) |



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RoHS

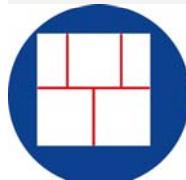
TCA series

Specifications

- Frequency range: DC to 6GHz
- Operating temperature: -55°C to 150°C
- Impedance: 50Ω
- Power rating: 2W
- Size: 3.1×3.7×0.53(mm), type I



| Model | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation (dB/dB/°C) | Max. VSWR (: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 |



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RoHS

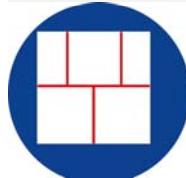
ETCA series

Specifications

- Frequency range:
DC to 3GHz
- Operating temperature:
-55°C to 150°C
- Temperature coefficient code:
N10~N16
- Power rating: 2W
- Size: 4.06×3.68×0.5(mm)



| Model | 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 |



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RoHS

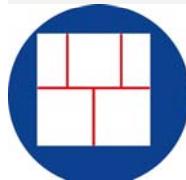
STCA series

Specifications

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



| Model | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation (dB/dB/°C) | Max. VSWR (:1) @1GHz | Attenuation Accuracy (dB) |
|------------|------------------|------------------------------|---|----------------------|---------------------------|
| STCA0601N* | 1 | N3~N7 | -0.003~ -0.007 | 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 |



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RoHS

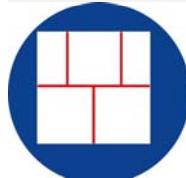
MTCA series

Specifications

- Wide frequency range:
DC to 12.4GHz
- Operating temperature:
-55°C to 150°C
- Impedance: 50Ω
- Power rating: 200mW
- Size: 1.52×1.91×0.28(mm), type II



| Model | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation (dB/dB/°C) | Max. VSWR (:1) @1GHz | Attenuation Accuracy (dB) |
|-------------|---------------------|------------------------------------|--|----------------------------|---------------------------------|
| MTCA1201N* | 1 | N3~N7 | -0.003~ -0.007 | 1.30 | ±0.5 |
| MTCA1202N* | 2 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| MTCA1203N* | 3 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| MTCA1204N* | 4 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| MTCA1205N* | 5 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| MTCA1206N* | 6 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| MTCA1207N* | 7 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| MTCA1208N* | 8 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| MTCA1209N* | 9 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| MTCA12010N* | 10 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |



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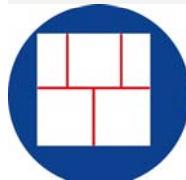
HTCA series

Specifications

- Wide frequency range:
DC to 18GHz
- Operating temperature:
-55°C to 150°C
- Impedance: 50Ω
- Power rating: 200mW
- Size: 1.62×1.91×0.28(mm), type II



| Model | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation (dB/dB/°C) | Max. VSWR (:1) @1GHz | Attenuation Accuracy (dB) |
|-------------|---------------------|------------------------------------|--|----------------------------|---------------------------------|
| HTCA1801N* | 1 | N3~N7 | -0.003~ -0.007 | 1.30 | ±0.5 |
| HTCA1802N* | 2 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| HTCA1803N* | 3 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| HTCA1804N* | 4 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| HTCA1805N* | 5 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| HTCA1806N* | 6 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| HTCA1807N* | 7 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| HTCA1808N* | 8 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| HTCA1809N* | 9 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |
| HTCA18010N* | 10 | N3~N9 | -0.003~ -0.009 | 1.30 | ±0.5 |



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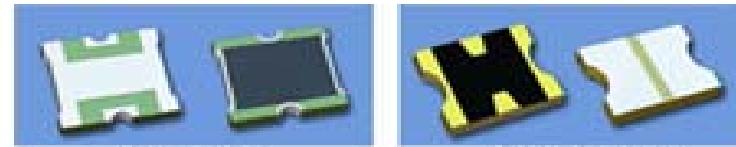
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WTCA series

Specifications

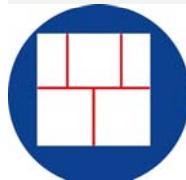
- Wide frequency range: DC to 20 GHz
- Operating temperature: -55°C to 150°C
- Impedance: 50Ω
- Power rating: 200mW
- Size: 1.52×1.78×0.28(mm)



SMT Package

Gold WB2 Package

| Model | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation (dB/dB/°C) | Max. VSWR (:1) @1GHz | Attenuation Accuracy (dB) |
|-------------|---------------------|------------------------------------|--|--|---------------------------------|
| WTCA2001N* | 1 | N3~N7 | -0.003~ -0.007 | 1.30 Max DC-10GHz @25°C 1.45 Max 10-20GHz @25°C | ±0.5 |
| WTCA2002N* | 2 | N3~N9 | -0.003~ -0.009 | | ±0.5 |
| WTCA2003N* | 3 | N3~N9 | -0.003~ -0.009 | | ±0.5 |
| WTCA2004N* | 4 | N3~N9 | -0.003~ -0.009 | | ±0.5 |
| WTCA2005N* | 5 | N3~N9 | -0.003~ -0.009 | | ±0.5 |
| WTCA2006N* | 6 | N3~N9 | -0.003~ -0.009 | | ±0.5 |
| WTCA2007N* | 7 | N3~N9 | -0.003~ -0.009 | | ±0.5 |
| WTCA2008N* | 8 | N3~N9 | -0.003~ -0.009 | | ±0.5 |
| WTCA2009N* | 9 | N3~N9 | -0.003~ -0.009 | | ±0.5 |
| WTCA20010N* | 10 | N3~N9 | -0.003~ -0.009 | | ±0.5 |



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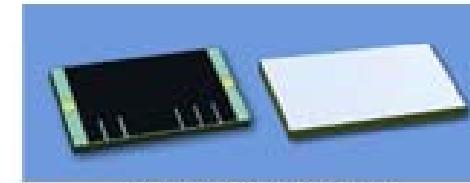
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KTCA series

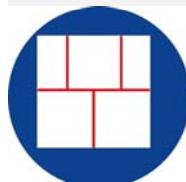
Specifications

- Wide frequency range: 16 to 36 GHz
- Operating temperature: -55°C to 150°C
- Impedance: 50Ω
- Power rating: 200mW
- Size: 3.05×1.65×0.28(mm)



Gold, WB1 Package

| Model | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation (dB/dB/°C) | Max. VSWR (:1) @1GHz | Attenuation Accuracy (dB) |
|------------|---------------------|------------------------------------|--|----------------------------|---------------------------------|
| KTCA3601N* | 1 | N3~N7 | -0.003~-0.007 | 1.35 | ±0.5 |
| KTCA3602N* | 2 | N3~N9 | -0.003~-0.009 | 1.35 | ±0.5 |
| KTCA3603N* | 3 | N3~N9 | -0.003~-0.009 | 1.35 | ±0.5 |
| KTCA3604N* | 4 | N3~N9 | -0.003~-0.009 | 1.35 | ±0.5 |
| KTCA3605N* | 5 | N3~N9 | -0.003~-0.009 | 1.35 | ±0.5 |
| KTCA3606N* | 6 | N3~N9 | -0.003~-0.009 | 1.35 | ±0.5 |



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PTCA series

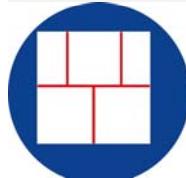
(Thermal compensation characteristics with positive coefficients)

Specifications

- Frequency range:
DC to 3GHz
- Power rating: 2W
- Operating temperature:
-55°C to 150°C
- Size: 3.1×3.7×0.53(mm), type I
- Impedance: 50 or 75Ω



| Model | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation (dB/dB/°C) | Max. VSWR (:1) @1GHz | Attenuation Accuracy (dB) |
|------------|---------------------|------------------------------------|--|-------------------------|---------------------------------|
| PTCA0301P* | 1 | N3~N9 | +0.003~ +0.009 | 1.20 | ±0.5 |
| PTCA0302P* | 2 | N3~N9 | +0.003~ +0.009 | 1.20 | ±0.5 |
| PTCA0303P* | 3 | N3~N9 | +0.003~ +0.009 | 1.20 | ±0.5 |
| PTCA0304P* | 4 | N3~N9 | +0.003~ +0.009 | 1.20 | ±0.5 |
| PTCA0305P* | 5 | N3~N9 | +0.003~ +0.009 | 1.20 | ±0.5 |
| PTCA0306P* | 6 | N3~N9 | +0.003~ +0.009 | 1.20 | ±0.5 |



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Use Table III below for a reference showing what tests are included when requesting Group A, B, or C designators.

Table III: Testing Procedures to be Included

| | Group A | Group B | Group C |
|---|----------------|----------------|----------------|
| Pre-Cap Inspection | ✓ | ✓ | ✓ |
| Initial RF Testing | ✓ | ✓ | ✓ |
| Visual Mechanical | ✓ | ✓ | ✓ |
| Thermal Shock | ✓ | ✓ | ✓ |
| After Thermal Shock (ATS) RF Testing | ✓ | ✓ | ✓ |
| 168 Hour Burn-In | ✓ | ✓ | ✓ |
| After Burn-In (ABI) Final RF Testing | ✓ | ✓ | ✓ |
| PDA % RF Test Comparison | ✓ | ✓ | ✓ |
| TCA Testing | HRT & HRM only | HRT & HRM only | HRT & HRM only |
| Low Temperature Operation | | ✓ | ✓ |
| After Low Temperature Operation RF Testing | | ✓ | ✓ |
| High Temperature Bake | | ✓ | ✓ |
| Terminal Adhesion Test | | ✓ | ✓ |
| Bondability Test | | WB1 or G only | WB1 or G only |
| Solderability Test | | ✓ | ✓ |
| Pre Burn-In (PBI) RF Testing | | ✓ | ✓ |
| Life Test 1000 hour Burn-In | | ✓ | ✓ |
| After Burn-In Life Test (ABIL) RF Test | | ✓ | ✓ |
| Pre-Qual Burn-In (QBI) RF Test | | | ✓ |
| Qualification 1000 hour Stepped Pulse Burn-In | | | ✓ |
| After Qual. Burn-In (AQBI) RF Testing | | | ✓ |



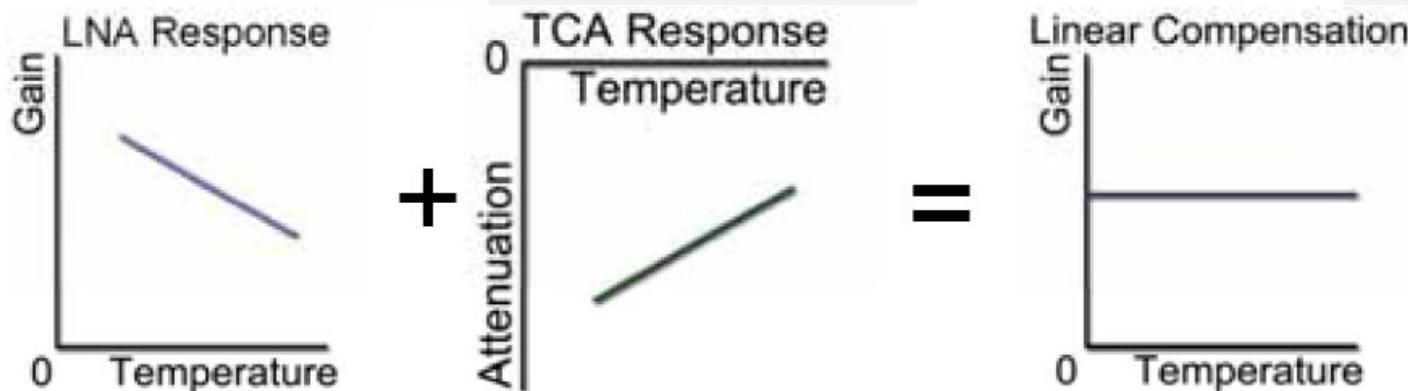
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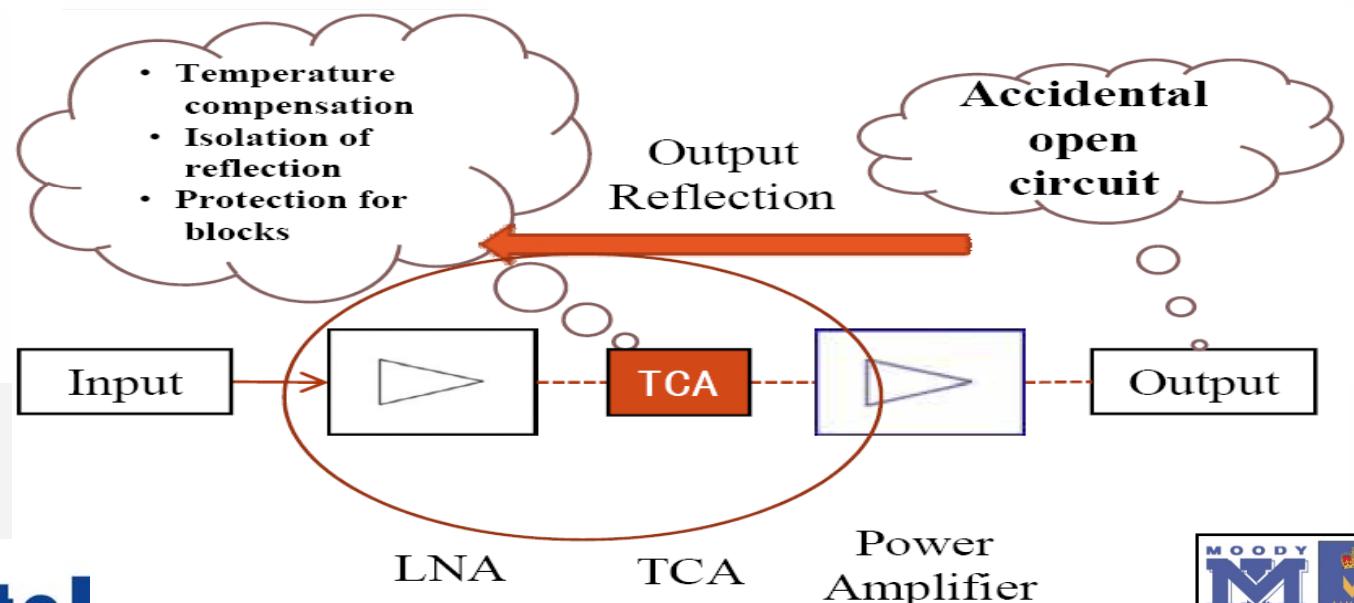


Application Diagram

- Improving the temperature characteristics of LNA



- In case of open circuit, the added TCA can isolate the return loss from Output and protect the LNA.



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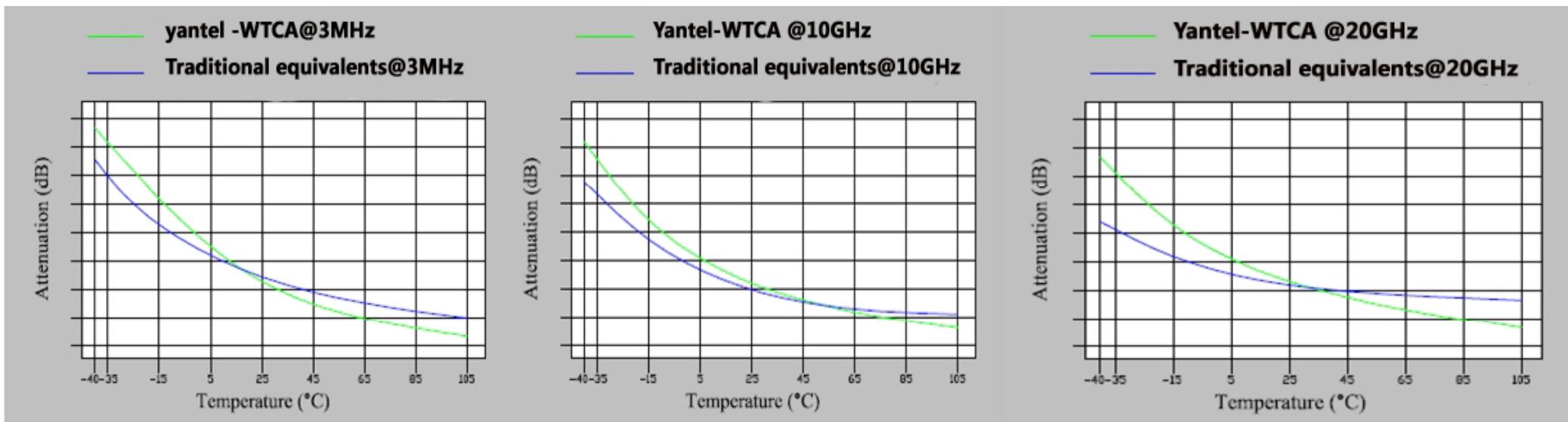
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Innovative Technology

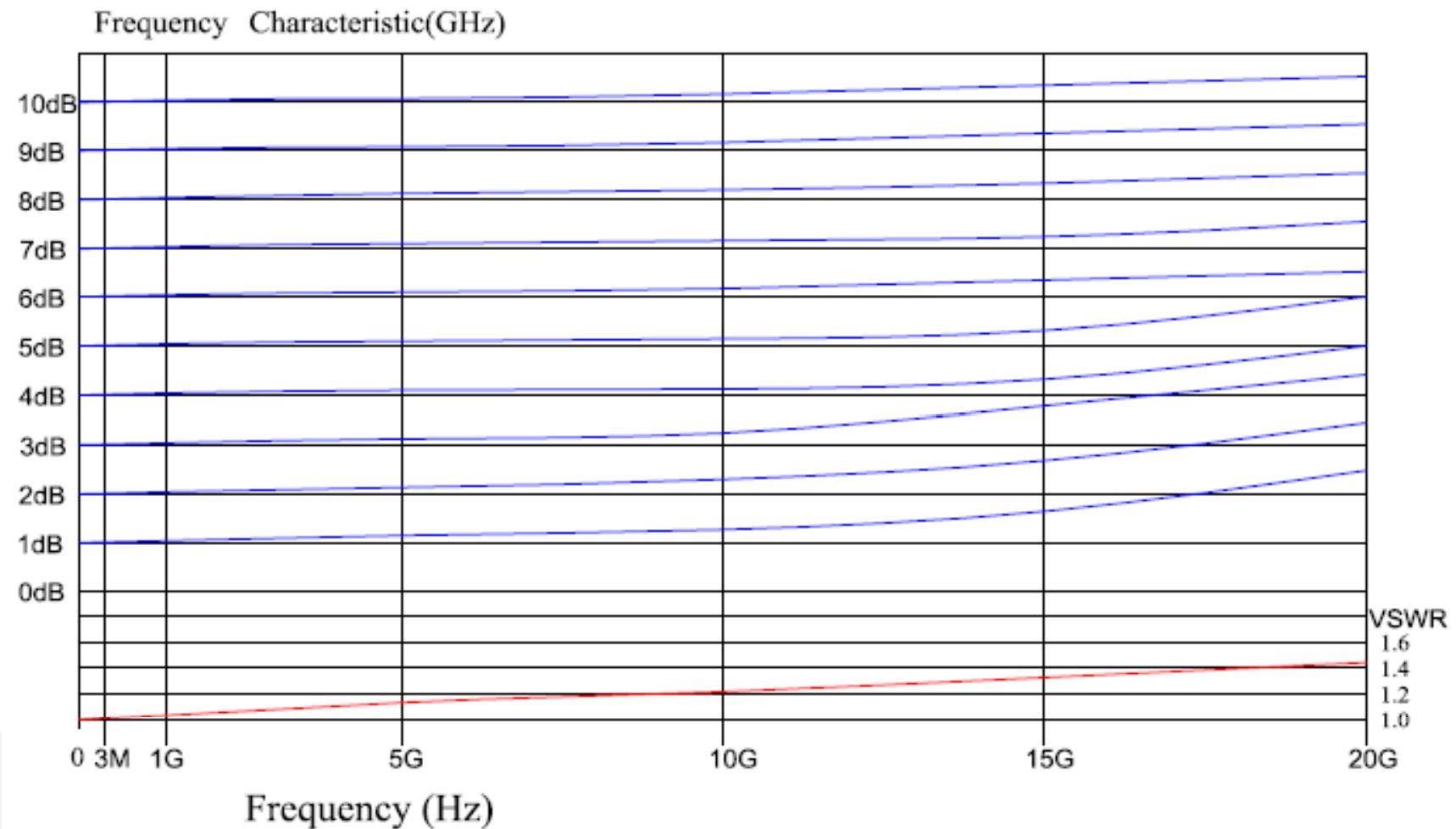
About compensation characteristics @3M,10G and 20G, Yantel WTCA(DC-20G) has several advantages over traditional equivalents.

- 1.Wider positive and negative temperature compensation range
- 2.Larger and better positive and negative change
- 3.Lower insertion loss within the frequency band and better response flatness



Frequency Characteristics

WTCA Series @1~10dB (25 °C)



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Characteristics Advantages

- Frequency range: DC~6 GHz, DC~12.4 GHz, DC~18GHz , DC~20GHz , 16 ~36GHz
- Power rating: 100mW, 200mW, 2W,5W
- Impedance: 50Ω or 75Ω.
- Operating temperature: -55 °C to +150 °C
- There are 10 attenuations from 1dB to 10dB, and 7 variation slope characteristics per attenuation, which are N3, N4, N5, N6, N7, N8 and N9, totally 70 different combinations of temperature correction characteristics. In addition, bigger variation slopes such as N10 and N11 can be customized by request.
- Adopting 100% laser trimming, high attenuation accuracy.
- High reliability. Adopting advanced thick or thin film technology through firing @ 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.

Complete Solution of Variation Slope Characteristics for Every Attenuation

Custom Services

*N1, N2, N11, etc. can be customized based on customers' requirement.

*0.5dB, 10dB or higher attenuation can be customized accordingly.

| Model | Frequency Range (GHz) | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation (dB/dB/°C) | Max. VSWR (:1) @1GHz | Max. Input Power (W) | Attenuation Accuracy (dB) |
|-----------|-----------------------|------------------|------------------------------|---|----------------------|----------------------|---------------------------|
| TCA0601N* | DC-6 | 1 | N3,N4,N5,N6,N7,N8,N9 | -0.003~-0.009 | 1.2 | 2 | ±0.3 |
| TCA0602N* | DC-6 | 2 | N3,N4,N5,N6,N7,N8,N9 | -0.003~-0.009 | 1.2 | 2 | ±0.3 |
| TCA0603N* | DC-6 | 3 | N3,N4,N5,N6,N7,N8,N9 | -0.003~-0.009 | 1.2 | 2 | ±0.3 |
| TCA0604N* | DC-6 | 4 | N3,N4,N5,N6,N7,N8,N9 | -0.003~-0.009 | 1.2 | 2 | ±0.3 |
| TCA0605N* | DC-6 | 5 | N3,N4,N5,N6,N7,N8,N9 | -0.003~-0.009 | 1.2 | 2 | ±0.3 |
| TCA0606N* | DC-6 | 6 | N3,N4,N5,N6,N7,N8,N9 | -0.003~-0.009 | 1.2 | 2 | ±0.3 |
| TCA0607N* | DC-6 | 7 | N3,N4,N5,N6,N7,N8,N9 | -0.003~-0.009 | 1.2 | 2 | ±0.3 |
| TCA0608N* | DC-6 | 8 | N3,N4,N5,N6,N7,N8,N9 | -0.003~-0.009 | 1.2 | 2 | ±0.3 |
| TCA0609N* | DC-6 | 9 | N3,N4,N5,N6,N7,N8,N9 | -0.003~-0.009 | 1.2 | 2 | ±0.3 |
| TCA0610N* | DC-6 | 10 | N3,N4,N5,N6,N7,N8,N9 | -0.003~-0.009 | 1.2 | 2 | ±0.3 |

Calculating Method of Yantel Temperature Coefficient Code (N value)

1. Select 5pcs samples from a lot. Measure and record the attenuation status @ DC~6GHz every 20°C over the temperature range -55°C~+150°C
2. Calculate, using linear regression, the slope of curve.
3. Calculate temperature coefficient code using the following formula:

Temperature Coefficient Code(N value) = Slope/Attenuation@25°C

4. Notes: For example 4N9, when temperature changes by 1°C, the attenuation variation equals $4\text{dB} \times 0.009(\text{temperature coefficient code}) \times 1^\circ\text{C} = 0.036\text{dB}$. When temperature changes by 100°C, the attenuation variation equals $4\text{dB} \times 0.009 \times 10^\circ\text{C} = 3.6\text{dB}$.

Commercial Advantages

- Excellent performance, effective cost
- Available custom services
- Pin to pin with competitor's (package and outline)
- Regular Stock (2000~10000pcs per model)
- Quick delivery: 14 working days for 10,000pcs
- Good product repeatability
- Producing in accordance with patent content strictly
- Tape and reel
- Free samples and eval. Boards to be offered for evaluation

Selection Tool

Step 1

Select a Product:

- TCA0602N7
- TCA0602N8
- TCA0602N9
- TCA0602N10
- TCA0603N4
- TCA0603N5
- TCA0603N7
- TCA0603N9
- TCA0603N10

Step 2

Enter your Product(s) Attenuation: Frequency: **2000** MHz

| Temp °C: | Amplifier Gain (dB): | TCA Attn (dB): | Compensated Attn (dB): |
|----------|----------------------|----------------|------------------------|
| -55 | 24.6 | NaN | NaN |
| -35 | 24.4 | 3.97 | 20.43 |
| -15 | 24.25 | 3.69 | 20.56 |
| 5 | 24.10 | 3.42 | 20.68 |
| 25 | 23.88 | 3.18 | 20.70 |
| 45 | 23.6 | 2.94 | 20.66 |
| 65 | 23.4 | 2.75 | 20.65 |
| 85 | 23.15 | 2.58 | 20.57 |
| 105 | 22.8 | 2.44 | 20.36 |
| 125 | 22.4 | NaN | NaN |

Step 3

Tasks:

- Print Chart

Downloads:

- Application Notes
- View Product PDF

Link:

- Request Quote

Results

TCA0603N4 Response

Attenuation (dB)

Temperature (°C)

Amplifier Response

Gain (dB)

Temperature (°C)

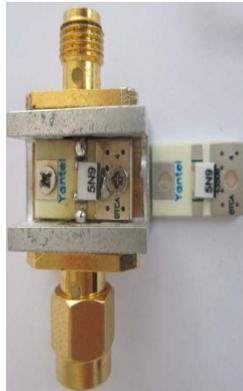
- 1: Select a P/N;
 - 2: Enter your amplifier gain(before compensation) at desired frequency point.
- Results: You will get an automatic result of response chart.
- 3: Confirm if the curve is needed as per request specs;
 - 4: Printing chart or download datasheet;

For more information, please visit: <http://en.yantel-corp.com/en/tca.htm>.



Technical Support and Services

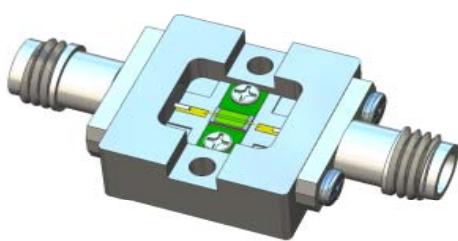
- ◆Free samples, eval boards and testing curves are available.



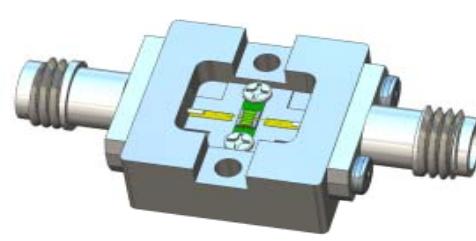
TCA、STCA、MTCA Eval. Board



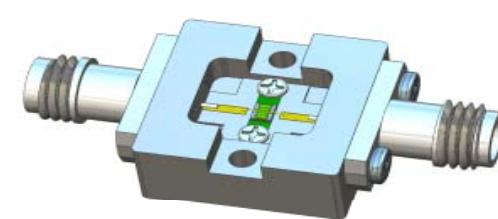
WTCA – SMT Eval. Board



KTCA -gold terminal Eval. Board



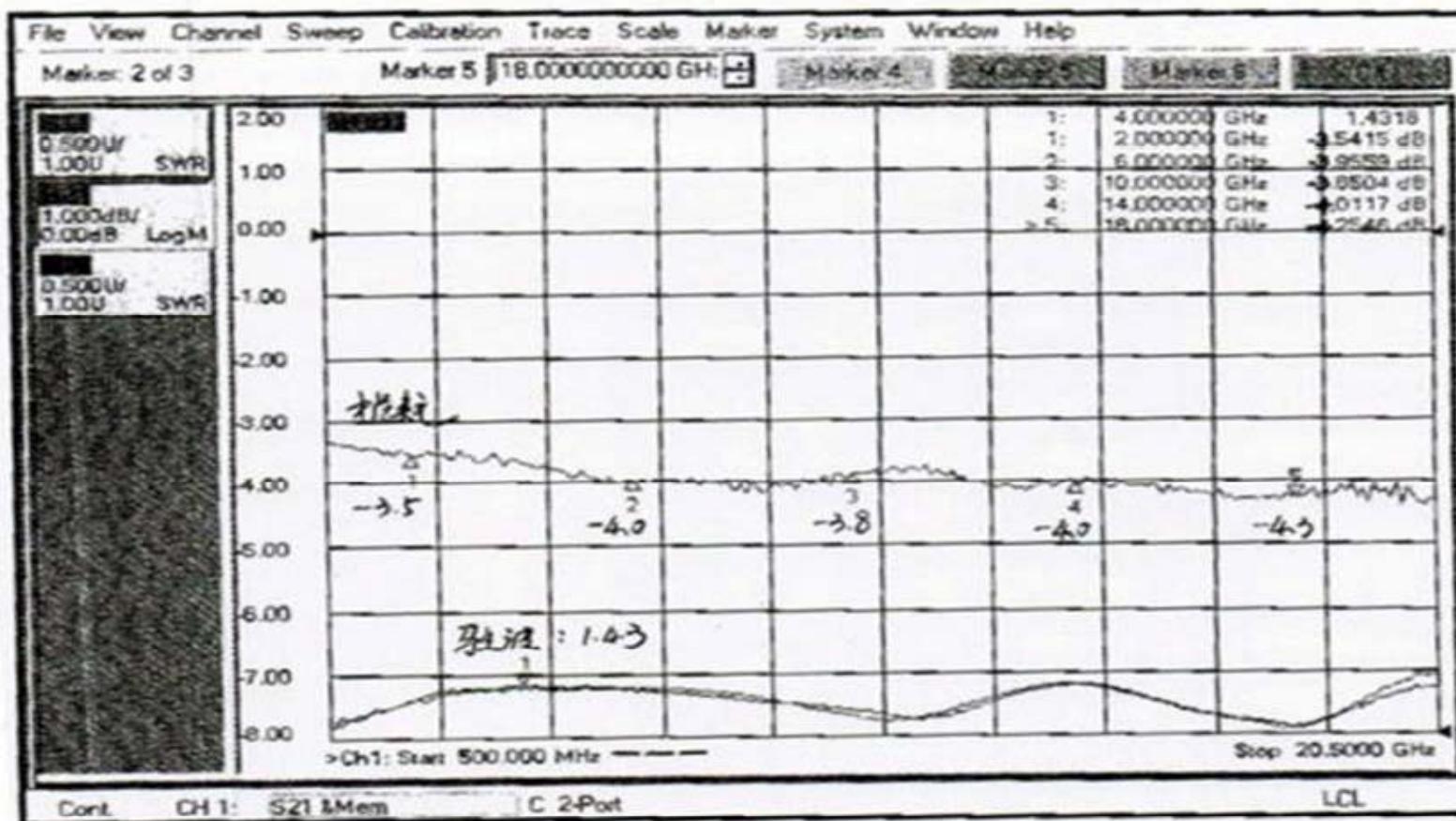
WTCA -WB2(gold terminal) Eval. Board



HTCA WB1(gold terminal and wrap ground only)Eval. Board

◆ Test report is available

WTCA2003N5 (+25°C)



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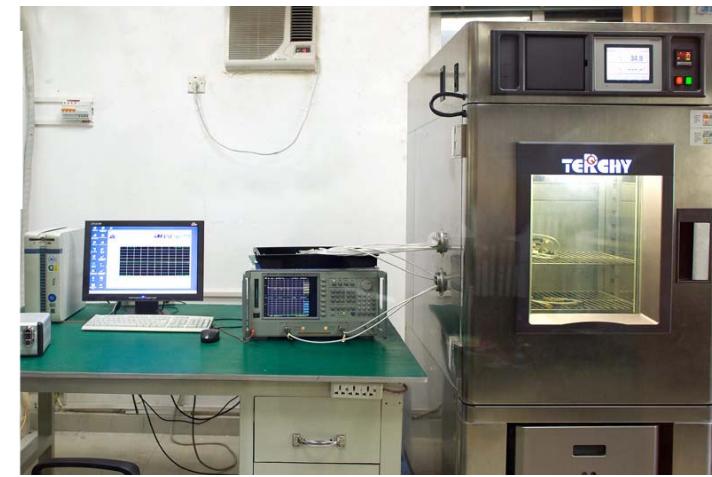
www.yantel-corp.com



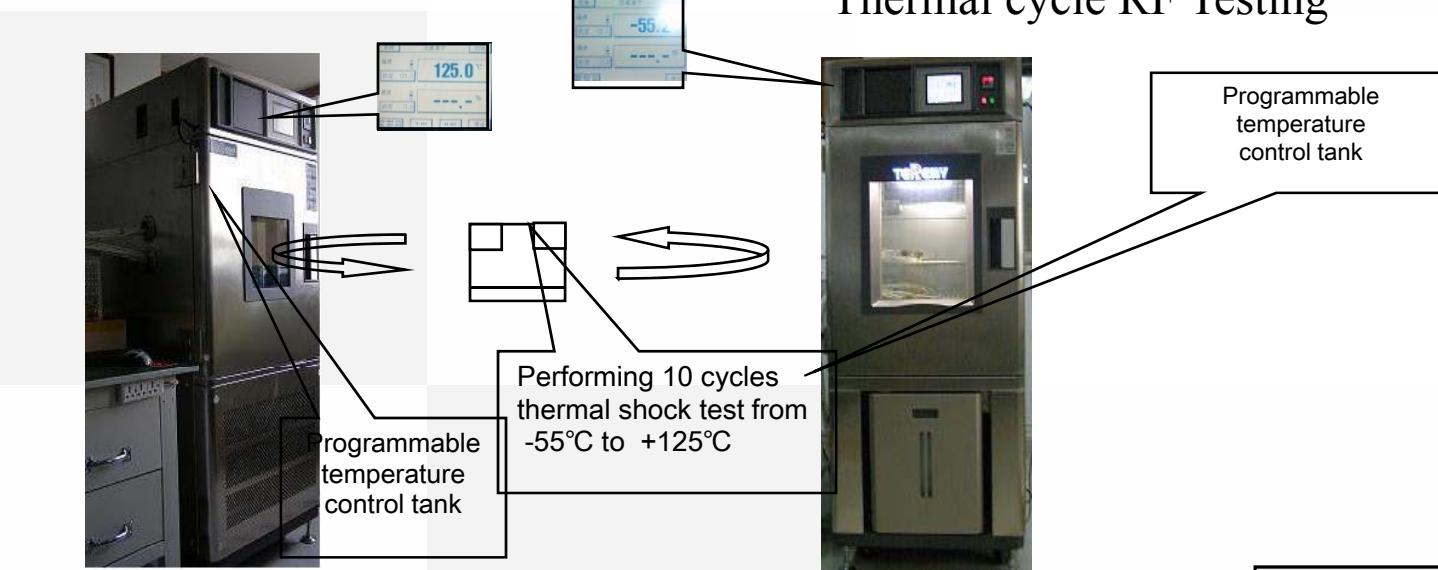
Reliability Test Equipment



Power testing

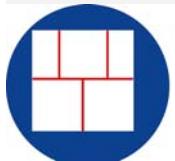


Thermal cycle RF Testing



Thermal shock Testing

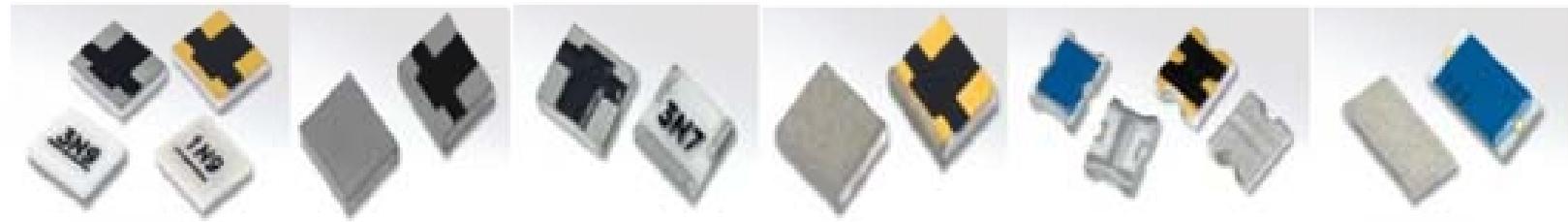
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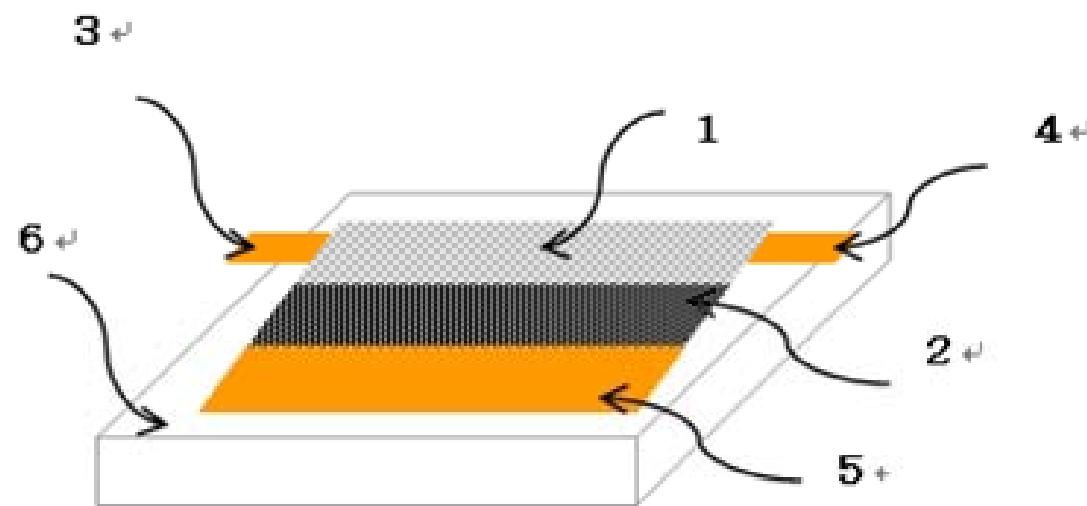
Yantel



Product outline:



Product structure:



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Thank you for your attention