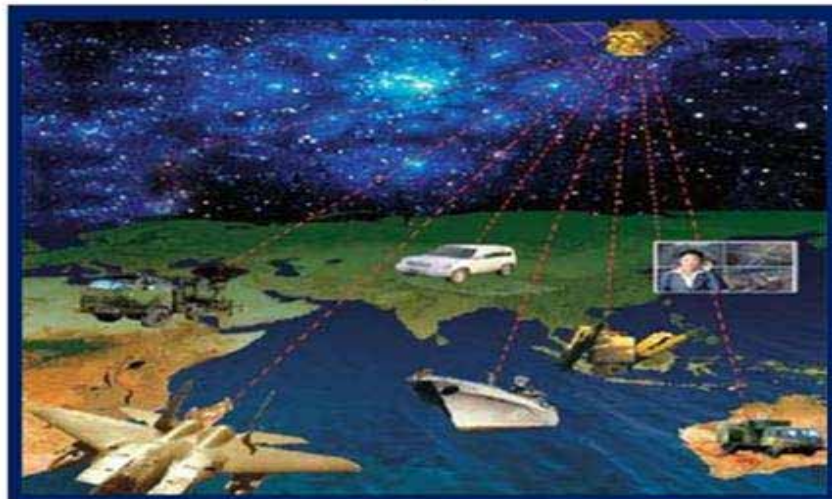


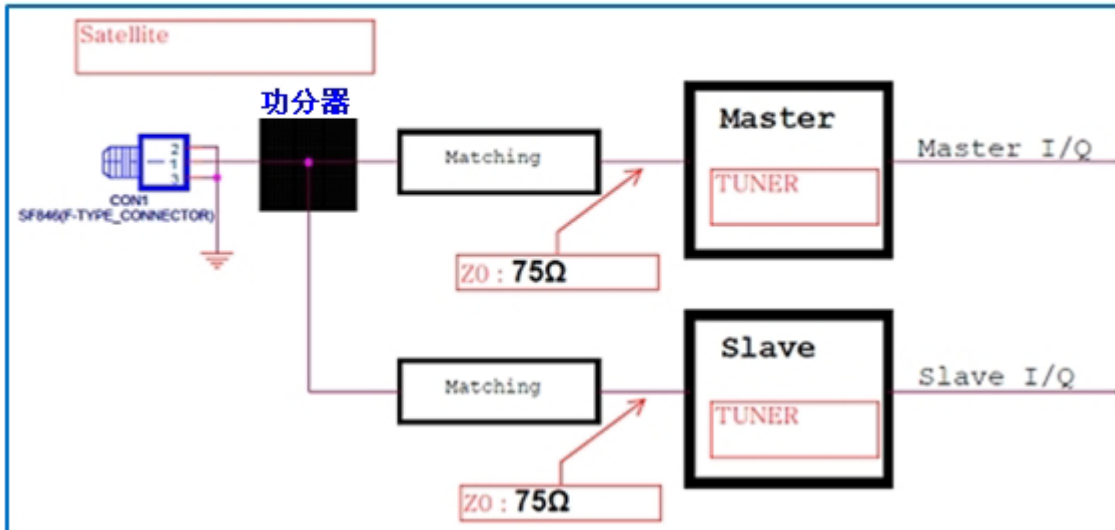
## 1. Yantel IC 2-way Divider/ Combiner and Temp. Compensation Attenuator are Widely Applied to LNB & Satellite Receiver

Yantel 贴片式温度补偿衰减器	Yantel 宽带2路0° 功分器/合路器 IC
<ul style="list-style-type: none"><li>• 频率范围: DC-3GHz, DC-6GHz, DC to 12.4GHz, DC to 18GHz, DC to 20GHz</li><li>• 功率: 100mW, 200mW, 2W</li><li>• 工作温度: -55℃ to +150℃</li></ul>	<ul style="list-style-type: none"><li>• PD1500U03W ( 频率范围: 1000~2000 MHz )</li><li>• PD1700U03W ( 频率范围: 600~2900 MHz )</li><li>• 更多型号, 请看下面介绍</li></ul>



## LNB & Satellite Receiver Design Scheme

### LNB & 卫星接收机电路图方案



## 2. Yantel Product Advantage

### Cost Advantages:

- The cost is lower 40% than other manufacturers'.

### 1> Yantel IC 2-way Power Divider/ Splitter

### Performance Advantage

- Low Loss & Low VSWR; Excellent amplitude & phase balance; High Isolation; Excellent repeatability
- No need external 100Ω Resistor ( for 2-way 0° Power Divider/Combiner IC

- The wide band freq. characteristic can ensure mobile vehicles receive excellent signals from various satellites operated at different freq. points.

**Application: Satellite Receiver and LNB**

## **2> Yantel SMD Temp. Compensation Attenuator**

**Performance Advantage**

**Operating frequency DC-6/12.4/18/20GHz**

**Accurately compensating the gain change over temp. to ensure stable power for PA in high and low ambient environment.**

**Application: Satellite BUC**

## **3 . Yantel's 2-way 0° Power Divider/Combiner IC**

### **Features**

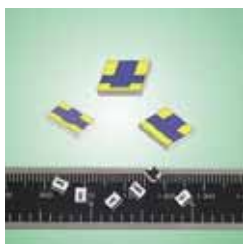
- No need external 100Ω Resistor
- Built with leading edge RFIC design technology
- Low Loss & Low VSWR
- Excellent amplitude & phase balance
- High Isolation
- Ultra small size: 2.0 x 2.0 mm
- Excellent repeatability
- Tape & Reel
- Average Power: 2 Watts as divider, 1 Watt as combiner



Part No.	Freq.Range (MHz)	Power (W) as a divider	Power (W) as a combiner	Package Size LXW (mm)	Insertion loss (dB)	Amplitude Balance (dB)	Phase Balance (deg)	Isolation (dB)	Input VSWR (:1)	Output VSWR (:1)
<u>PD0500U03-210</u>	280~610	2	1	2X2	0.60	0.1	0.5	12-20	1.40	1.20
<u>PD0900U03-070</u>	800~1000	2	1	2X2	0.40	0.1	0.5	20	1.20	1.12
<u>PD1500U03-140</u>	1350~1650	2	1	2X2	0.35	0.1	0.5	20	1.20	1.20
<u>PD1500U03W</u>	1000~2000	2	1	2X2	0.70	0.1	0.5	10	1.50	1.45
<u>PD1700U03W</u>	600~2900	2	1	3X3	0.70	0.1	0.5	11-27	1.2-1.6	1.1-1.6
<u>PD1850U03-080</u>	1650~2050	2	1	2X2	0.40	0.1	0.5	20	1.20	1.17
<u>PD2150U03-090</u>	1900~2350	2	1	2X2	0.40	0.1	0.5	20	1.20	1.17
<u>PD2450U03-100</u>	2200~2650	2	1	2X2	0.40	0.1	0.5	20	1.20	1.18
<u>PD3550U03-110</u>	3300~3800	2	1	2X2	0.40	0.1	0.5	20	1.20	1.20

#### 4. Yantel SMD Temperature Compensation Attenuator

Advanced thick film technology adopted, size & terminal & temperature slope compatible, most complete serialization of designs and low cost, broke 10 years' monopoly.



##### Features:

- Frequency range: DC to 6GHz, DC to 12.4GHz , DC to 18GHz, DC to 20GHz , 16~36GHz
- Power rating: 100mW, 200mW, 2W
- Impedance: 50Ω or 75Ω

- Operating temperature: -55 to +150
- Adopting 100% laser trimming, high attenuation accuracy.
- High reliability. Adopting advanced thick film technology through firing at the high temperature of 850 .

Zero Distortion, and no phase changes and time delay caused by temperature variation.

- 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.

#### **Product Series:**

TCA Series.....DC~6GHz,2W,50 Ohms  
 STCA Series.....DC~6GHz,100mW,50 Ohms ,  
 MTCA Series.....DC~12.4GHz,200mW,50 Ohms  
 HTCA Series.....DC~18GHz,200mW,50 Ohms  
 WTCA Series.....DC~20GHz,50 Ohms  
 KTCA Series.....16~36GHz,50 Ohms  
 BTCA Series.....DC~6GHz,2W,75 Ohms  
 BSTCA Series.....DC~3GHz,100mW,75 Ohms

**More details, please click website: [http://www.yantel-corp.com/en/products/products1\\_165.html](http://www.yantel-corp.com/en/products/products1_165.html)**