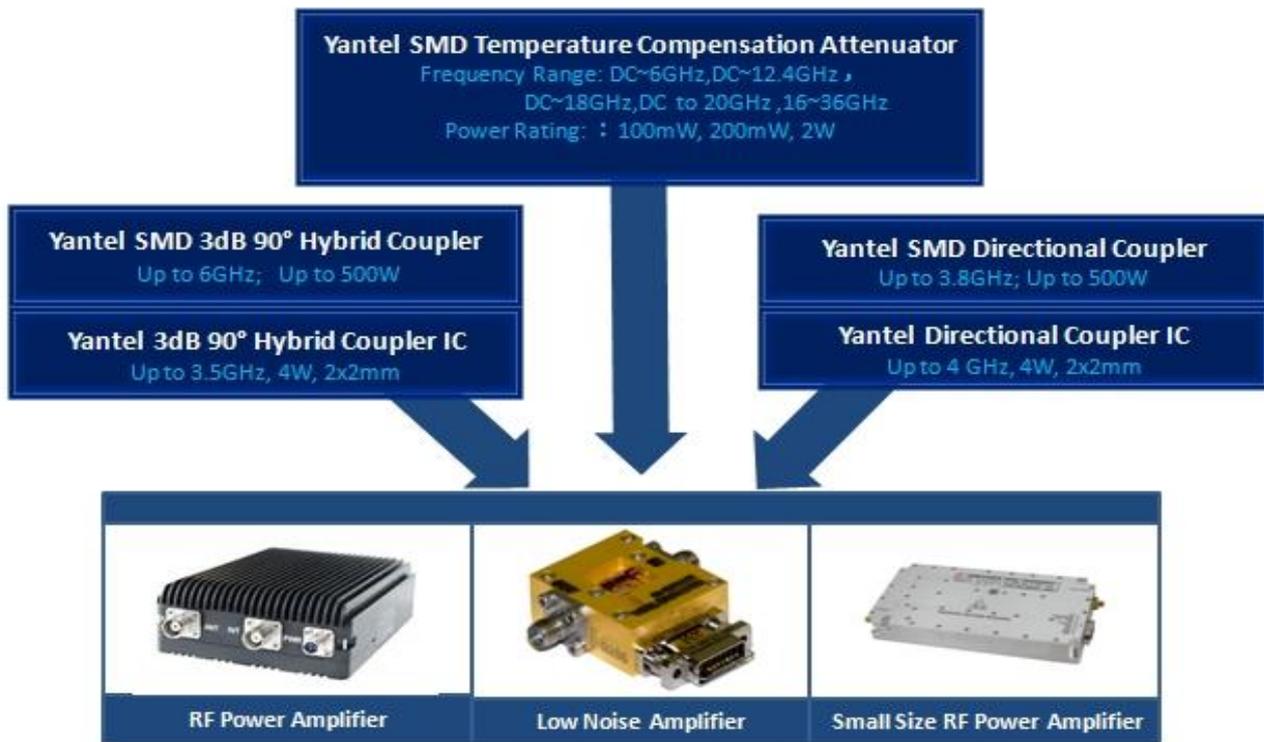
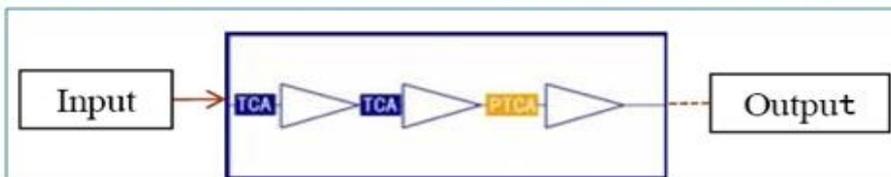


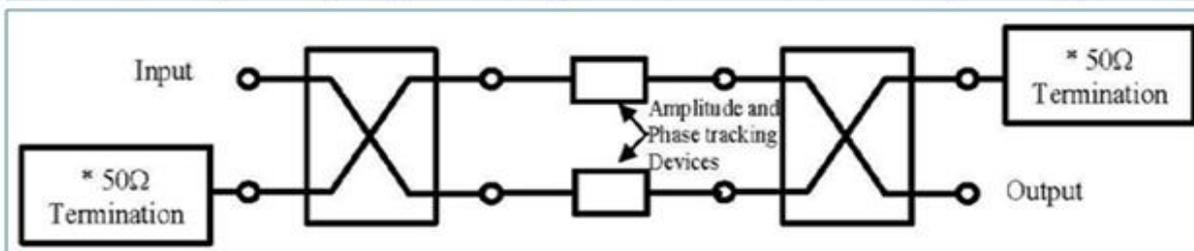
1. Yantel [SMD Temperature Compensation Attenuator](#), [3dB 90° Hybrid Coupler](#), [Directional Coupler](#) applied to power amplifier, LNA etc.



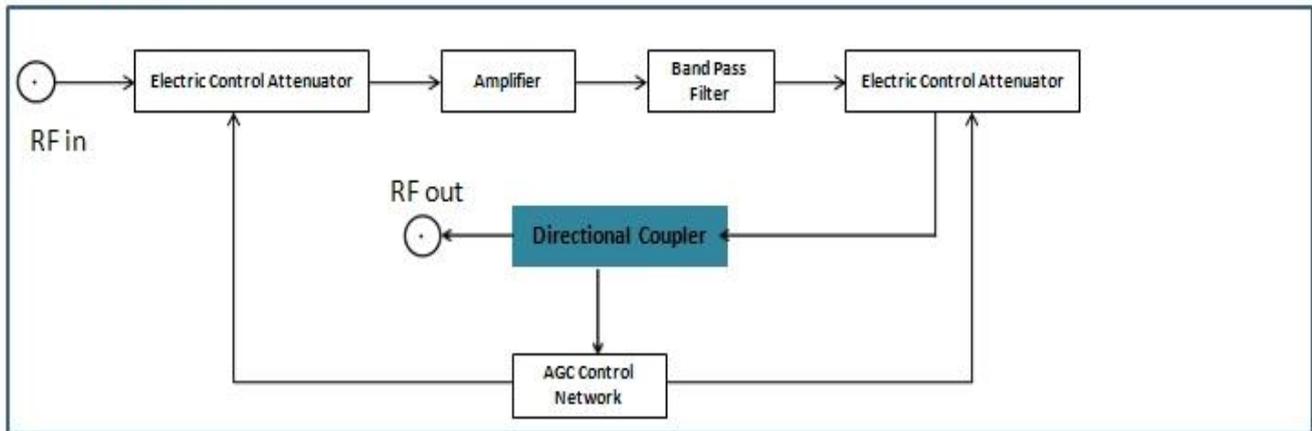
**Yantel Temperature Compensation Attenuator applied to penultimate stage of multi-stage power amplifier**



**Yantel 3dB 90° Hybrid Coupler applied to 2 way divider and combiner network in power amplifier**



Yantel Directional Coupler applied to power detection, data sampling, to realizing power amplifier system automatic gain compensating, monitoring etc function.



### Cost Advantage

- The cost of Yantel's SMD Temperature Compensation Attenuator, 3dB 90 °Hybrid Coupler, Directional Coupler is lower around 40% than the one of other manufacturers

### Performance Advantage

- Yantel SMD Temperature Compensation Attenuator

- Wider attenuation range
- Lower VSWR
- Higher Attenuation Accuracy
- Bigger Attenuation Variation

- Yantel 3dB 90 °Hybrid Coupler, Directional Coupler

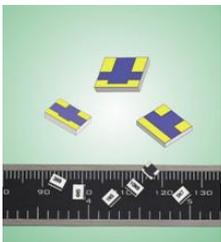
- Low Loss & Low VSWR
- Good Repeatability

## 2. 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°C to +150°C
- Adopting 100% laser trimming, high attenuation accuracy.
- High reliability. Adopting advanced thick film technology through firing at the high temperature of 850 °C.



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)

### 3. Yantel SMD 3dB 90 °Hybrid Coupler & SMD Directional Coupler:

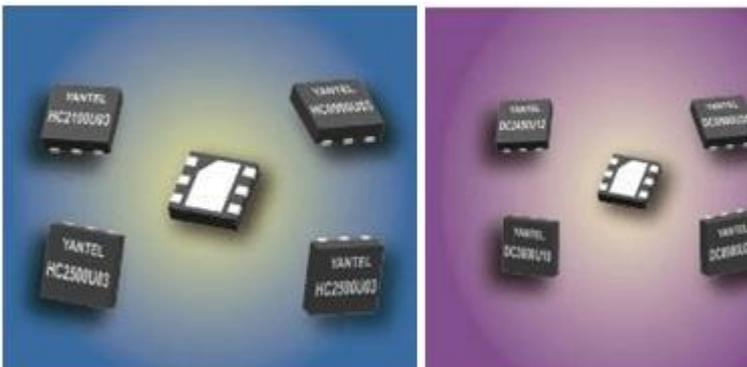


#### Features:

- Low profile, low cost high performance
- Low Loss & Low VSWR
- High isolation
- Excellent amplitude & phase balance
- Excellent repeatability
- Tape & Reel

More details, please click website: [http://www.yantel-corp.com/en/products/products1\\_164.html](http://www.yantel-corp.com/en/products/products1_164.html)  
[http://www.yantel-corp.com/en/products/products1\\_163.html](http://www.yantel-corp.com/en/products/products1_163.html)

### 4. Yantel 3dB 90 °Hybrid Coupler IC & Directional Coupler IC:



#### Features:

- Built with leading edge RFIC design technology
- Low Loss & Low VSWR
- High isolation
- Excellent amplitude & phase balance
- Ultra small size:2.0 x 2.0 mm
- Excellent repeatability
- Tape & Reel

More details, please click website: [http://www.yantel-corp.com/en/products/products1\\_180.html](http://www.yantel-corp.com/en/products/products1_180.html)  
[http://www.yantel-corp.com/en/products/products1\\_181.html](http://www.yantel-corp.com/en/products/products1_181.html)