

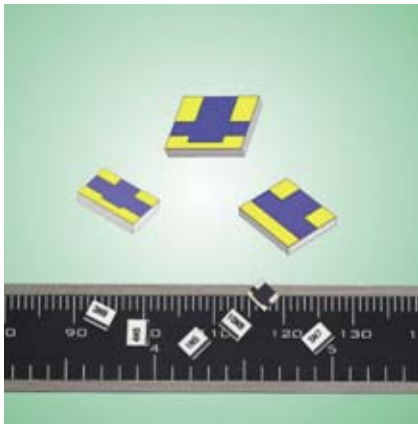
## Temperature Compensation Attenuator in CATV Application:

- Optical Node
- CMTS or CCMTS
- CATV Amplifier
- Optical Transceiver Module
- Optical Workstation

## Temperature Compensation Attenuator | US Utility patent No. US7,362,196 B2. EU, China, Taiwan patented

At present only Yantel and EMC have developed this product with international patent protection.

But Yantel products' price is nearly 30% lower than EMC's based on the same performance.



**Advanced thick film technology adopted, size & terminal & temperature slope compatible with EMC, The most complete serial design and competitive price, broke EMC 10 years' monopoly. By now, we are proud to tell you that our thin film technology is also released, which leads to higher attenuation accuracy and bigger compensation coefficient.**

- Frequency range: DC to 3GHz, DC to 6GHz, DC to 12.4GHz, DC to 18GHz, DC to 20GHz
- 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.

For more details, please click: [http://www.yantel-corp.com/en/products/products1\\_165.html](http://www.yantel-corp.com/en/products/products1_165.html) and see the attached.

**Product Series for CATV industry:**

**BTCA series**

(Suitable for Optical Transceiver Module in Broadcast Application)

Specifications:

- Frequency range: DC to 6GHz
- Operating temperature: -55°C to 150°C
- Impedance: 75Ω
- 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)
<a href="#">BTCA0601N*</a>	1	N3~N9	-0.003~ -0.009	1.20	±0.5
<a href="#">BTCA0602N*</a>	2	N3~N9	-0.003~ -0.009	1.20	±0.5
<a href="#">BTCA0603N*</a>	3	N3~N9	-0.003~ -0.009	1.20	±0.5
<a href="#">BTCA0604N*</a>	4	N3~N9	-0.003~ -0.009	1.20	±0.5
<a href="#">BTCA0605N*</a>	5	N3~N9	-0.003~ -0.009	1.20	±0.5
<a href="#">BTCA0606N*</a>	6	N3~N9	-0.003~ -0.009	1.20	±0.5