# AT0540 50Ω 5W 1~30dB DC~42GHz

## 2.92mm High Performance 50Ohm Stainless Steel Attenuator

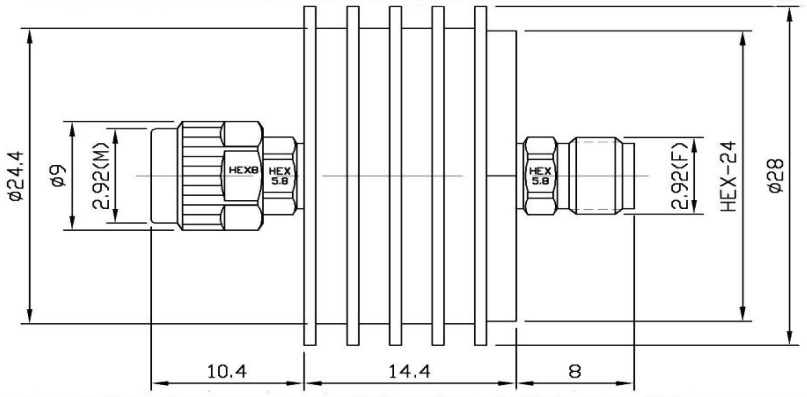
Ver A/0 Release Date March, 2018 P/N:AT0540

### Features

- DC~42GHz Frequency Range
- Max Power 5W
- VSWR < 1.38 < 1.26 < 1.18 < 1.13
  C-Class B-Class A-Class S-Class
- Miniature Size
- 2.92mm Interfaces

### Applications

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production systems




### Mechanical & Environmental Specifications

| | | | | | |
|---|---|---|---|---|---|
| Outer Conductor | Coupling Nut | Passivated Stainless Steel | Temp. Range | Storage | -55℃~125℃ |
| | Radiator | Black Anodized Aluminum Heatsink | | Working Temp. | -55℃~100℃ |
| Inner Conductor | Male | Beryllium Copper Gold plated(≥1.27μ m) | Altitude | Storage | < 15300 Meters |
| | Female | Beryllium Copper Gold plated(≥1.27μ m) | | Working Temp. | < 4800 Meters |
| Weight | | 26 g | | | |

### Electrical Specifications

| Model | Frequency Range(GHz) | Attenuation(dBc) and accuracy | | | | Return Loss(dB) |
|---|---|---|---|---|---|---|
| | | 1~3 | 4~8 | 9~15 | 16~30 | |
| AT0540C-XX | DC~40GHz | -0.8/+1.0 | -0.8/+1.2 | -0.8/+0.8 | -1.0/+1.2 | -15.9 |
| AT0540B-XX | DC~40GHz | -0.7/+0.9 | -0.7/+1.0 | -0.7/+0.7 | -0.9/+1.0 | -18.8 |
| AT0540A-XX | DC~40GHz | -0.6/+0.8 | -0.6/+0.9 | -0.6/+0.6 | -0.8/+0.8 | -21.7 |
| AT0540S-XX | DC~40GHz | -0.5/+0.7 | -0.5/+0.8 | -0.5/+0.5 | -0.6/+0.6 | -24.3 |

XX refers to decrease value,C,B,A,S are average power of performance level.

Average power: The ambient temperature corresponding to bidirectional 5W at input or output is 25 ℃

When temperature is up to 100℃.The power decreases linearly to 1W

Peak power: Max power 200W (Maximum 5 μ s pulse width, maximum 2% duty cycle)

Working time: no air cooling, ⩽ 10 minutes; with air cooling, air volume ⩾ 3CFM, long-term work

### Remark

1、All physical dimensions are in mm and the tolerance is ± 1%

2、The network analyzer tests in the whole frequency band, 100% electrical performance test.

3、Special connectors and special attenuation can be customized according to customer requirements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