

**AT2050    50Ω    20W    10~40dB    DC~52GHz**  
**2.4mm High Performance 50Ohm Stainless Steel Attenuator**



Ver A/0 Release Date March, 2018

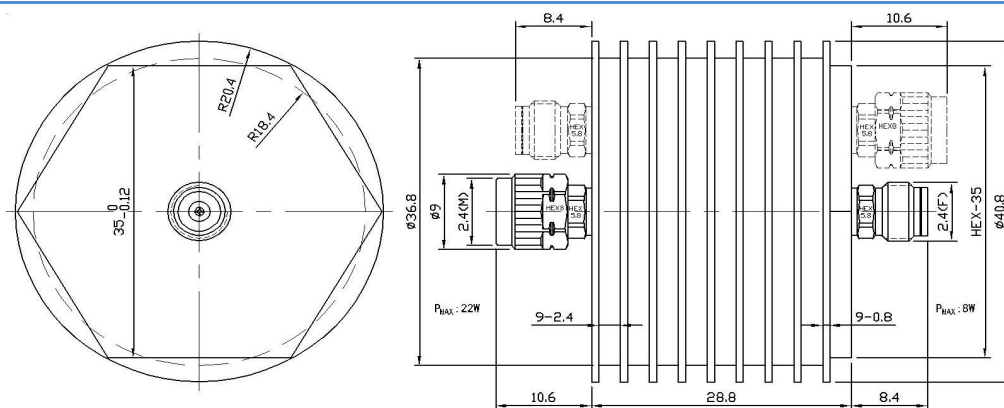
P/N:AT2050

**Features**

- DC~52GHz Frequency Range
- Max Power 22W
- VSWR < 1.58 < 1.38 < 1.26 < 1.18  
C-Class B-Class A-Class S-Class

**Applications**

- Miniature Size
- 2.4mm Interfaces
- 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 ( $\geq 1.27\mu\text{m}$ ) | Altitude      | Storage | < 15300 Meters |
| Female                       | Beryllium Copper Gold plated ( $\geq 1.27\mu\text{m}$ ) | Working Temp. |         | < 4800 Meters  |
| Weight                       | 90 g  |               |         |                |

**Electrical Specifications**

| Model      | Frequency Range (GHz) | Attenuation(dBc) and accuracy |           |           |           | Return Loss(dB) |
|------------|-----------------------|-------------------------------|-----------|-----------|-----------|-----------------|
|            |                       | 3~10                          | 20        | 30        | 40        |                 |
| AT2050C-XX | DC~50GHz              | -2.0/+2.5                     | -1.2/+1.8 | -1.2/+1.8 | -1.2/+1.8 | -13.0           |
| AT2050B-XX | DC~50GHz              | -2.0/+2.2                     | -1.2/+1.5 | -1.2/+1.5 | -1.2/+1.5 | -15.9           |
| AT2050A-XX | DC~50GHz              | -1.8/+2.2                     | -1.0/+1.5 | -1.0/+1.5 | -1.0/+1.5 | -18.8           |
| AT2050S-XX | DC~50GHz              | -1.8/+2.0                     | -1.0/+1.2 | -1.0/+1.2 | -1.0/+1.2 | -21.7           |

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

Average power: The ambient temperature corresponding to bidirectional 22W input or 8W output is 25 °C

When temperature is up to 100℃. The power decreases linearly to 2W or 1W

Peak power: Max power 100W (Maximum 5 μs pulse width, maximum 8% or 3% duty cycle)

Working time: no air cooling, ≤ 5 minutes; with air cooling, air volume ≥ 10CFM, long-term work

**Remark**

- 1、 All physical dimensions are in mm and the tolerance is  $\pm 1\%$
- 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

Shenzhen RFcoms Technology Co.,LTD

Tell: +86 13480725660

Website: www.rfcoms.com

Email: luke@rfcoms.com

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