

**AT0530    50Ω    5W    1~30dB    DC~30GHz**  
**SMA High Performance 50Ohm Stainless Steel Attenuator**



Ver A/0 Release Date March, 2018

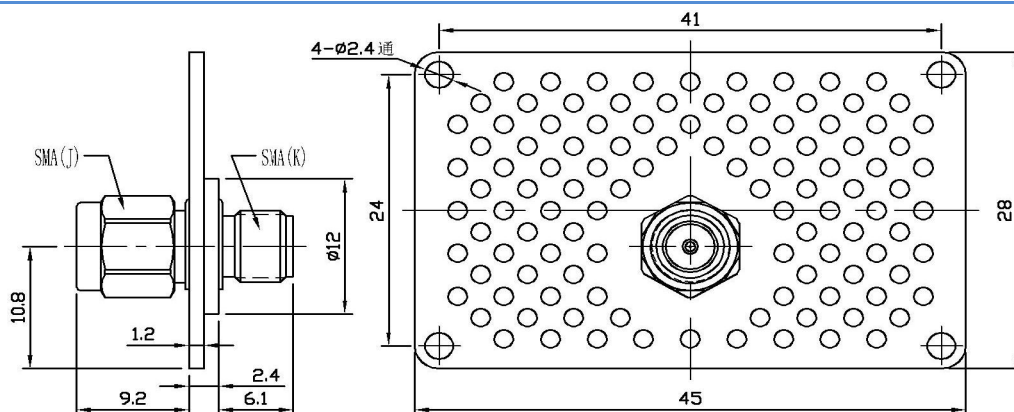
P/N:AT0530

**Features**

- DC~30GHz Frequency Range
- Max Power 6W
- VSWR < 1.20

**Applications**

- Miniature Size
- SMA 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                       | 10 g   |               |         |                |

**Electrical Specifications**

| Model     | Frequency Range (GHz) | Attenuation(dBc) and accuracy |           |             |           | Return Loss(dB) |
|-----------|-----------------------|-------------------------------|-----------|-------------|-----------|-----------------|
|           |                       | 1~6                           | 7~10      | 20          | 30        |                 |
| AT0530-XX | DC~30GHz              | -0.2/+0.2                     | -0.2/+0.2 | -0.25/+0.25 | -0.3/+0.3 | -24.7           |
|           |                       |                               |           |             |           |                 |
|           |                       |                               |           |             |           |                 |
|           |                       |                               |           |             |           |                 |

XX refers to decrease value

Average power: The ambient temperature corresponding to bidirectional at 5W input is 25 °C

When temperature is up to 100℃.The power decreases linearly to 0.5W

Peak power: Max power 150W (Maximum 5 μ s pulse width, maximum 4% or 3% duty cycle)

Working time: no air cooling, ≤ 5 minutes; with air cooling, air volume ≥ 8CFM, 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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