

**AT1050 50Ω 10W 3~40dB DC~52GHz**  
**2.4mm High Performance 50Ohm Stainless Steel Attenuator**



Ver A/0 Release Date March, 2018

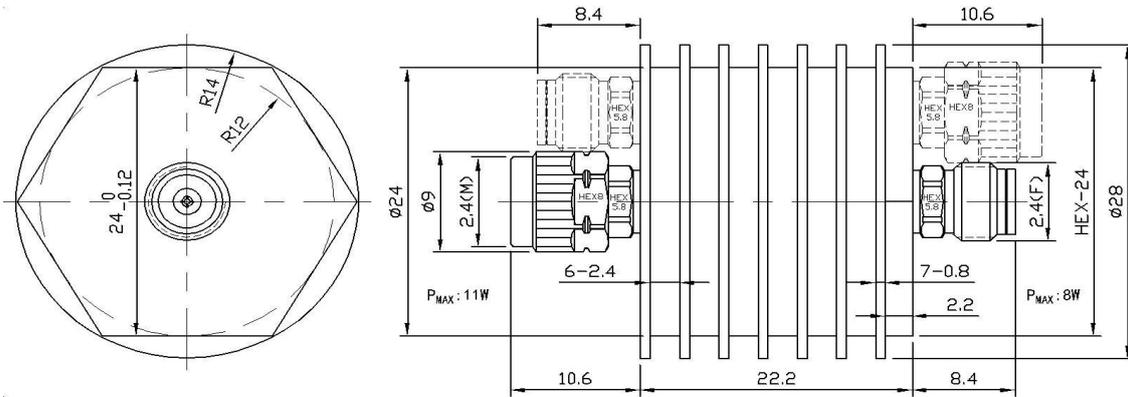
P/N:AT1050

**Features**

- DC~52GHz Frequency Range
- Max Power 11W
- VSWR < 1.52 < 1.34 < 1.23 < 1.16  
 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°C~125°C
Radiator	Black Anodized Aluminum Heatsink	Working Temp.		-55°C~100°C
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	35 g			

**Electrical Specifications**

Model	Frequency Range (GHz)	Attenuation(dBc) and accuracy				Return Loss(dB)
		3~10	20	30	40	
AT1050C-XX	DC~50GHz	-0.8/+2.0	-1.5/+1.8	-1.5/+1.8	-1.5/+1.8	-13.7
AT1050B-XX	DC~50GHz	-1.5/+1.8	-1.2/+1.5	-1.2/+1.5	-1.2/+1.5	-16.8
AT1050A-XX	DC~50GHz	-1.2/+1.5	-1.0/+1.2	-1.0/+1.2	-1.0/+1.2	-19.7
AT1050S-XX	DC~50GHz	-1.0/+1.2	-0.8/+1.0	-0.8/+1.0	-0.8/+1.0	-22.6

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

Average power: The ambient temperature corresponding to bidirectional 11W input or 8W output is 25 °C

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

Peak power: Max power 100W (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 ± 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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