

AT3050 50Ω 30W 10~40dB DC~52GHz
2.4mm High Performance 50Ohm Stainless Steel Attenuator



Ver A/0 Release Date March, 2018

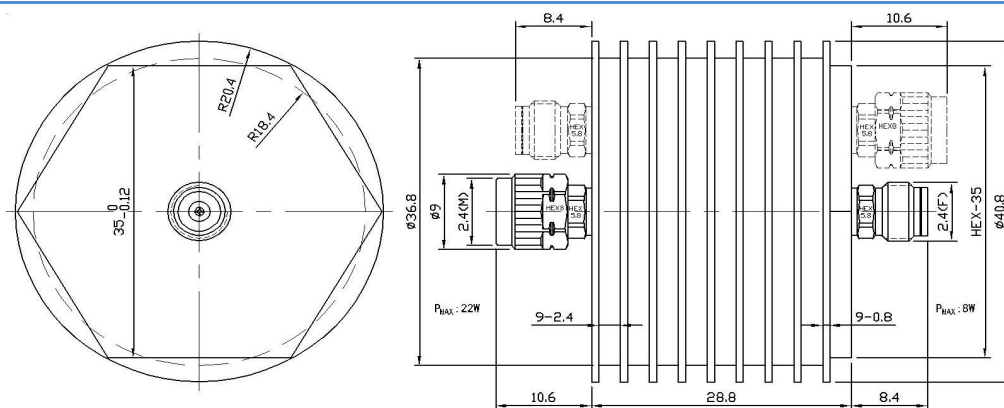
P/N:AT3050

Features

- DC~52GHz Frequency Range
- Max Power 30W
- 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	130 g			

Electrical Specifications

Model	Frequency Range (GHz)	Attenuation(dBc) and accuracy				Return Loss(dB)
		10	20	30	40	
AT3050C-XX	DC~50GHz	-2.5/+2.8	-1.8/+2.2	-1.8/+2.2	-1.8/+2.2	-13.0
AT3050B-XX	DC~50GHz	-2.2/+2.5	-1.8/+2.0	-1.8/+2.0	-1.8/+2.0	-15.9
AT3050A-XX	DC~50GHz	-2.0/+2.5	-1.5/+2.0	-1.5/+2.0	-1.5/+2.0	-18.8
AT3050S-XX	DC~50GHz	-2.0/+2.2	-1.5+1.8	-1.5+1.8	-1.5+1.8	-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 30W input or 8W output is 25 °C

When temperature is up to 100℃. The power decreases linearly to 3W or 1W

Peak power: Max power 100W (Maximum 5 μs pulse width, maximum 10% or 3% duty cycle)

Working time: no air cooling, ≤ 5 minutes; with air cooling, air volume ≥ 15CFM, 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

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