AT5040 50Ω 50W 10~40dB DC~42GHz

2.92mm High Performance 50Ohm Stainless Steel Attenuator

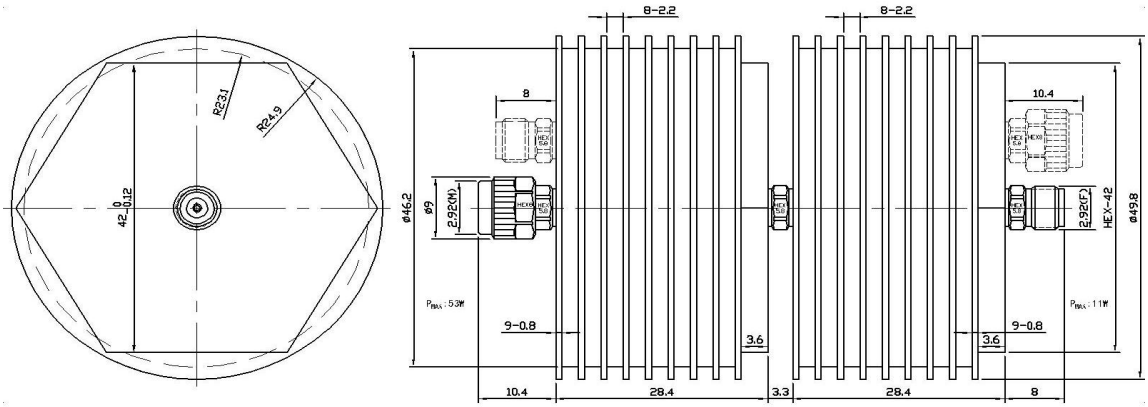
Ver A/0 Release Date March, 2018 P/N:AT5040

Features

- DC~42GHz Frequency Range
- Max Power 50W
- VSWR < 1.58 < 1.38 < 1.26 < 1.18
  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 or ZTP	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		280 g			

Electrical Specifications

Model	Frequency Range(GHz)	Attenuation(dBc) and accuracy				Return Loss(dB)
		10	20	30	40	
AT5040A-XXC	DC~40GHz	-2.8/+3.5	-2.2/+2.8	-2.2/+2.5	-2.2/+2.5	-13.0
AT5040A-XXC	DC~40GHz	-2.8/+3.2	-2.2/+2.5	-2.2/+2.2	-2.2/+2.2	-15.9
AT5040A-XXC	DC~40GHz	-2.5/+3.2	-2.0/+2.5	-2.0/+2.2	-2.0/+2.2	-18.8
AT5040A-XXS	DC~40GHz	-2.5/+3.0	-2.0/+2.2	-2.0/+2.0	-2.0/+2.0	-21.7

XX refers to decrease value,C,B,A,S are average power of performance level.Average power: the ambient temperature corresponding to 50W input or 10W output is 25℃.When temperature is up to 100℃.The power decreases linearly to 5W or 1W.

Peak power: Max power 200W (Maximum 5 μ s pulse width, maximum 10% or 3% duty cycle)

Working time: no air cooling, ⩽ 5 minutes; with air cooling, air volume ⩾ 30CFM, 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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