

AT4540 50Ω 45W 10~40dB DC~42GHz
2.92mm High Performance 50Ohm Stainless Steel Attenuator



Ver A/0 Release Date March, 2018

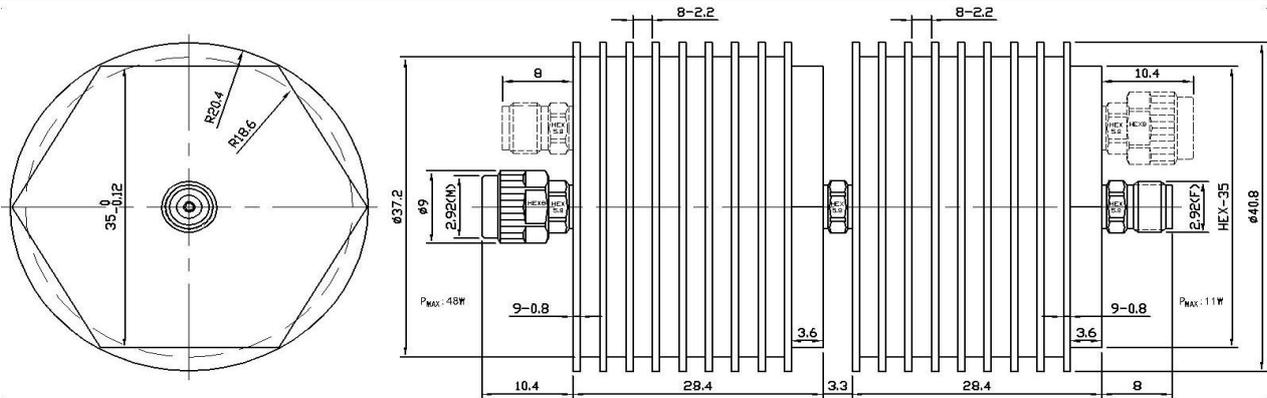
P/N:AT4540

Features

- DC~42GHz Frequency Range
- Max Power 48W
- VSWR < 1.58 < 1.38 < 1.26 < 1.18
C-Class B-Class A-Class S-Class

Applications

- Miniature Size
- 2.92mm Interfaces
- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production systems



Mechanical & Environmental Specifications

Outer Conductor Coupling Nut	Passivated Stainless Steel or ZTP	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	180 g			

Electrical Specifications

Model	Frequency Range (GHz)	Attenuation(dBc) and accuracy				Return Loss(dB)
		10	20	30	40	
AT4540C-XX	DC~40GHz	-2.8/+3.5	-2.2/+2.8	-2.2/+2.5	-2.2/+2.5	-13.0
AT4540B-XX	DC~40GHz	-2.8/+3.2	-2.2/+2.5	-2.2/+2.2	-2.2/+2.2	-15.9
AT4540A-XX	DC~40GHz	-2.5/+3.2	-2.0/+2.5	-2.0/+2.2	-2.0/+2.2	-18.8
AT4540S-XX	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 45W input or 10W output is 25°C. When temperature is up to 100°C. The power decreases linearly to 4W 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 ≥ 25CFM, 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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