

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



Ver A/0 Release Date March, 2018

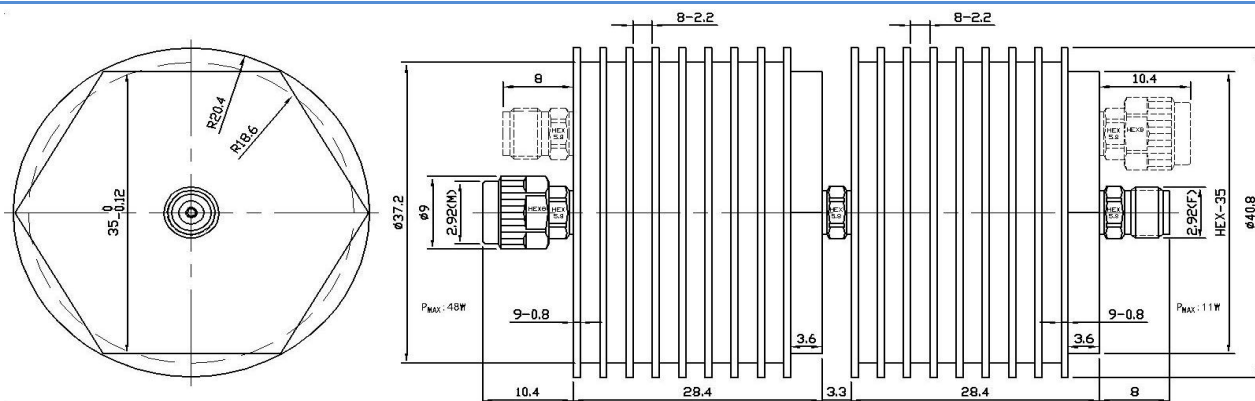
P/N:AT4540

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℃~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	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℃.When temperature is up to 100℃.The power decreases linearly to 4W or 1W.

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

Working time: no air cooling, ≤ 5 minutes; with air cooling, air volume $\geq 25\text{CFM}$, 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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