

AT1865 50Ω 18W 10~40dB DC~69GHz
1.85mm High Performance 50Ohm Stainless Steel Attenuator



Ver A/0 Release Date March 2018

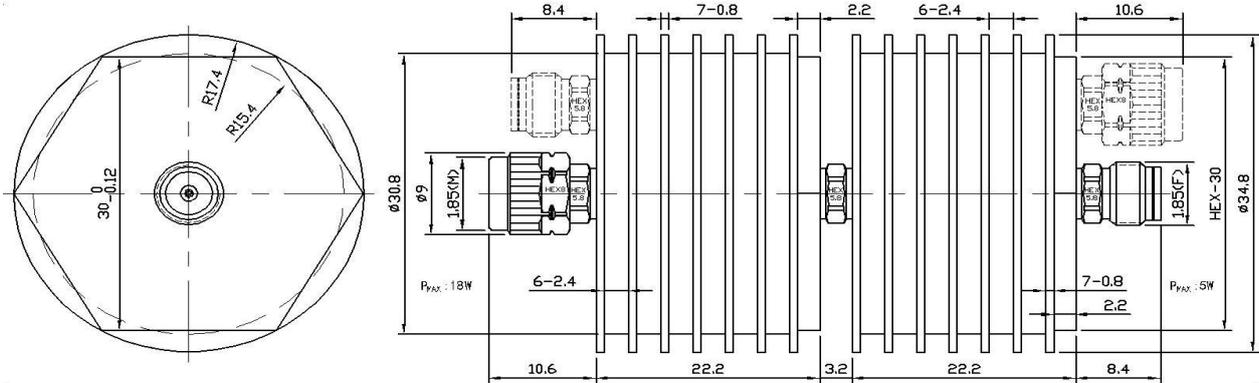
P/N:AT1865

Features

- DC~69GHz Frequency Range
- Max Power 18W
- VSWR < 1.78 < 1.58 < 1.38 < 1.26
 C-Class B-Class A-Class S-Class

Applications

- Miniature Size
- 1.85mm 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	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		98 g			

Electrical Specifications

Model	Frequency Range(GHz)	Attenuation(dBc) and accuracy				Return Loss(dB)
		10	20	30	40	
AT1865C-XX	DC~67GHz	-2.5/+2.8	-1.8/+2.2	-1.8/+2.2	-1.8/+2.2	-11
AT1865B-XX	DC~67GHz	-2.2/+2.5	-1.8/+2.0	-1.8/+2.0	-1.8/+2.0	-13
AT1865A-XX	DC~67GHz	-2.0/+2.5	-1.5/+2.0	-1.5/+2.0	-1.5/+2.0	-15.9
AT1865S-XX	DC~67GHz	-2.0/+2.2	-1.5/+1.8	-1.5/+1.8	-1.5/+1.8	-18.8

XX refers to decrease value, C, B, A, S are average power of performance level. Temperature coefficient 0.0002dB/dB/°C.

Power sensitivity: 0.001dB/dB/W. Average power: the ambient temperature corresponding to maximum 18W power is 25°C.

When temperature is up to 100°C. The power decreases linearly to 2W or 0.5W

Peak power: Max power 50W (Maximum 5μ s pulse width, maximum 10% or 4% duty cycle)

Working time: no air cooling, ≤ 5 minutes; with air cooling, air volume ≥ 10CFM, 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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