

AT1365 50Ω 13W 10~40dB DC~69GHz
1.85mm High Performance 50Ohm Stainless Steel Attenuator



Ver A/0 Release Date March 2018

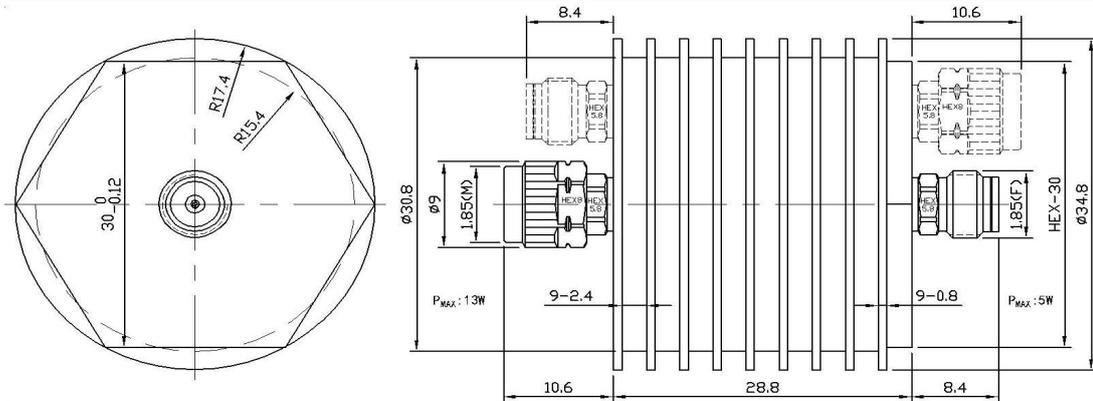
P/N:AT1365

Features

- DC~69GHz Frequency Range
- Max Power 13W
- 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 | 68 g | | | |

Electrical Specifications

| Model | Frequency Range(GHz) | Attenuation(dBc) and accuracy | | | | Return Loss(dB) |
|------------|----------------------|-------------------------------|-----------|-----------|-----------|-----------------|
| | | 3~10 | 20 | 30 | 40 | |
| AT1365C-XX | DC~67GHz | -2.0/+2.5 | -1.2/+1.8 | -1.2/+1.8 | -1.2/+1.8 | -11 |
| AT1365B-XX | DC~67GHz | -2.0/+2.2 | -1.2/+1.5 | -1.2/+1.5 | -1.2/+1.5 | -13 |
| AT1365A-XX | DC~67GHz | -1.8/+2.2 | -1.0/+1.5 | -1.0/+1.5 | -1.0/+1.5 | -15.9 |
| AT1365S-XX | DC~67GHz | -1.8/+2.0 | -1.0/+1.2 | -1.0/+1.2 | -1.0/+1.2 | -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 13W power is 25°C.

When temperature is up to 100°C. The power decreases linearly to 1.5W or 0.5W

Peak power: Max power 50W (Maximum 5μ s pulse width, maximum 8% or 4% duty cycle)

Working time: no air cooling, ≤ 5 minutes; with air cooling, air volume ≥ 7CFM, 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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