



50W Embedded Attenuator DC – 4GHz



Features

- Low VSWR
- High Power Handling
- Multiple Attenuation Values Available

Typical Applications

- Test and Measurement
- Wireless Infrastructure
- Military and Aerospace

Electrical Specifications, $T_A=25\text{ }^\circ\text{C}$

| Parameters | | Min. | Typ. | Max. | Units |
|---|------------|------------------------------|------|------|--------|
| Frequency Range | | DC | | 4 | GHz |
| Attenuation Value & Accuracy | 3 | | ±1.0 | | dB |
| | 6 | | | | |
| | 10 | | | | |
| | 20 | | | | |
| | 30 | | | | |
| | 40 | | | | |
| VSWR | | | | 1.35 | : 1 |
| Average Power | | 50 | | | W |
| Peak Power Handling (5µs pulse, 0.5% Duty Cycle) | | 10 | | | KW |
| Weight | | 8.82 | | | ounces |
| Impedance | | 50 | | | Ω |
| Connector Type | | N,SMA | | | |
| Finish | Connectors | Brass Nickel Plated | | | |
| | Male Pin | Brass Gold Plated | | | |
| | Female Pin | Beryllium Copper Gold Plated | | | |
| | Housing | Aluminum | | | |

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Environmental Specifications and Test Standards

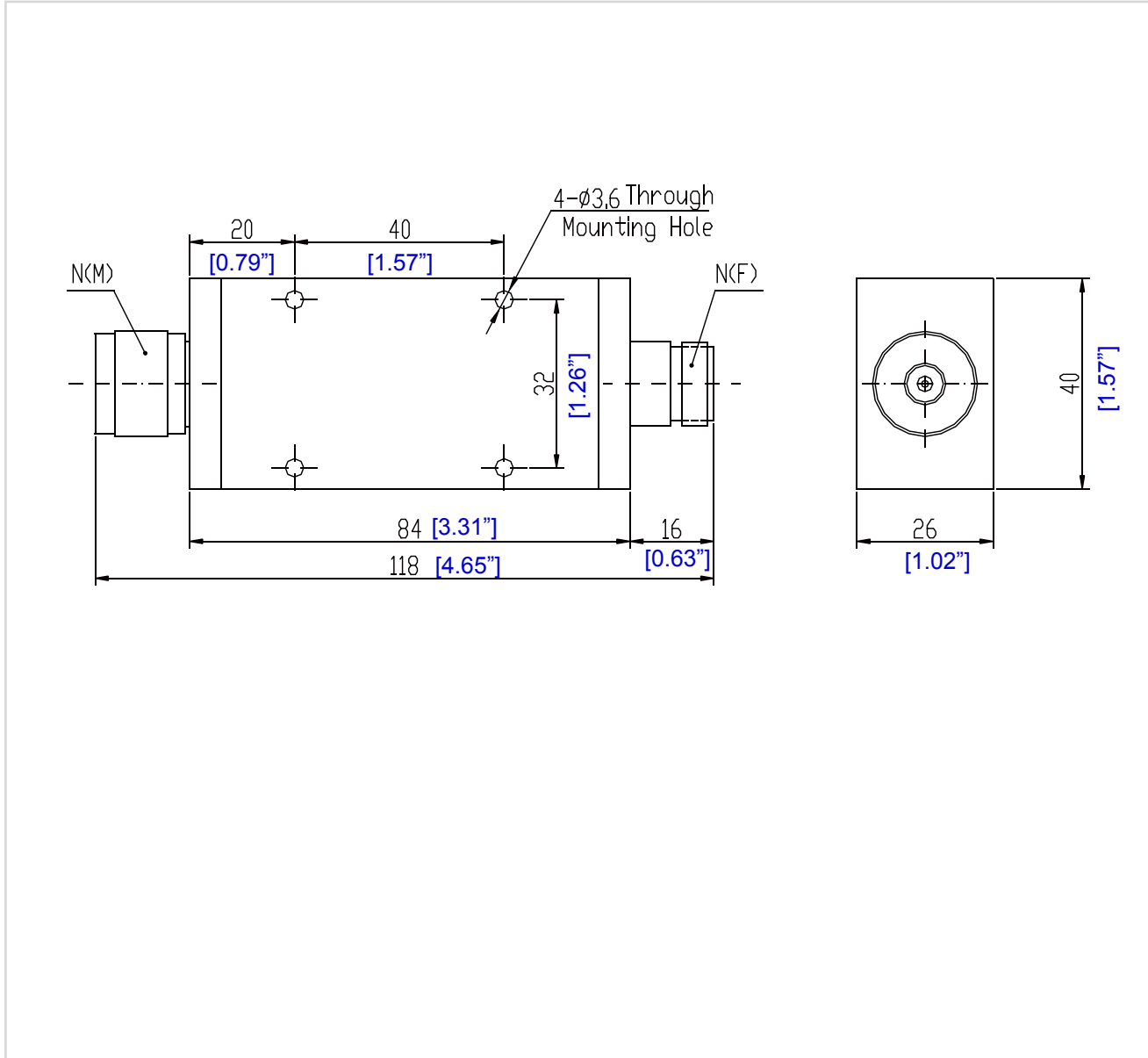
| Parameter | Standard | Description |
|----------------------------------|---------------|---|
| Operational Temperature | MIL-STD-39016 | -40°C~+85°C |
| Storage Temperature | | -55°C~+125°C |
| Thermal Shock | | 1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles) |
| Random Vibration | | Acceleration Spectral Density 6 (m/s) Total 92.6 RMS |
| Electrical & Temperature Burn In | | Temperature +85°C for 72 Hours |
| Shock | | 1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction). |
| Altitude | | Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min) |
| Hermetically Sealed (Optional) | MIL-STD-883 | MIL-STD-883 (For Hermetically Sealed Units) |

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Outline Drawing:

All Dimensions in mm [inches]



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