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Test & Measurement

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Model 33 Medium Power Fixed Coaxial Attenuator

dc to 8.5 GHz 25 Watts

🗸 RoHS

Bi-directional Design!





Features

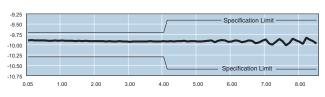
- // Quality Connectors with special high temperature support beads.
- // Designed to meet environmental requirements of MIL-A-3933.
- // Low Intermodulation option available.
- // Mode free operation to 10 GHz.

Specifications

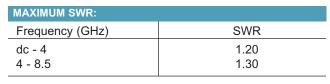
 NOMINAL IMPEDANCE:
 50 Ω

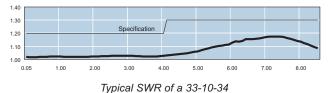
 FREQUENCY RANGE:
 dc to 8.5 GHz

MAXIMUM DEVIATION OVER FREQUENCY (dB): 4 - 8.5 GHz Nominal dc-4 GHz 33 33-LIM ATTN (dB) 33 33-LIM 3, 6 + 0.30- - -+ 0.60- - -10, 20 + 0.30 ± 0.40 <u>+</u> 0.60 ± 0.70 30 + 0.60 ± 0.70 <u>+</u> 1.00 <u>+</u> 1.20



Typical Attenuation Accuracy of a 33-10-34





3rd ORDER INTERMODULATION (33-XX-XX-LIM Only): Reflected Levels (IM3), -100 dBc and Through Levels (IM3), -110 dBc with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +41 dBm each. IM specification at J2 limited to 10 Watts of input power. **POWER RATING (mounted horizontally):** 25 watts **average (bi-directional)** to 25°C ambient temperature, derated linearly to 2.5 watts @ 125°C. Note: 3 dB model can handle 50 Watts **average (bi-directional)**. 5 kilowatt **peak** (5 μsec pulse width; 0.25% duty cycle).

POWER COEFFICIENT: <0.0006 dB/dB/watt

TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55 °C to 125 °C

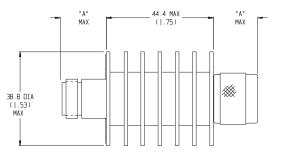
TEST DATA: Insertion loss test data supplied at 0.05, 4.0, and 8.0 GHz. Other test data can be provided at additional cost.

CONNECTORS: Type N & 2.92mm connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

| <u>Options</u> | Description | <u>Options</u> | Description |
|----------------|--------------------|----------------|--------------------|
| 1 | 2.92mm Female | 3 | Type N, Female |
| 2 | 2.92mm Male | 4 | Type N, Male |

CONSTRUCTION: Black, finned aluminum body, gold plated beryllium copper contacts.

WEIGHT: 170 g (6 oz.) maximum PHYSICAL DIMENSIONS:

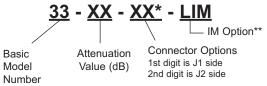


| Connector | DIM A | Connector | DIM A |
|-----------|-------------|---------------|-------------|
| N Male | 22.9 (0.90) | 2.92mm Female | 14.0 (0.55) |
| N Female | 15.0 (0.59) | 2.92mm Male | |

NOTE: All dimensions are given in mm (inches) and are maximum, unless otherwise specified.

MODEL NUMBER DESCRIPTION:

Example:



*Unit is bi-directional & full power may be applied to either J1 or J2. **Add -LIM to entire model number for Low Intermodulation option. Available in only 10, 20, 30 dB and is not available through Express.

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