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# Test & Measurement

# **Complimentary Reference Material**

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 This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.
 TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.
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# Model 33 Medium Power Fixed Coaxial Attenuator

# dc to 8.5 GHz 25 Watts

🗸 RoHS

## **Bi-directional Design!**





## **Features**

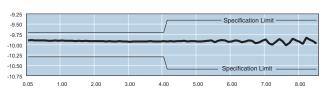
- // Quality Connectors with special high temperature support beads.
- // Designed to meet environmental requirements of MIL-A-3933.
- // Low Intermodulation option available.
- // Mode free operation to 10 GHz.

## **Specifications**

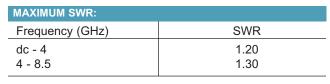
 NOMINAL IMPEDANCE:
 50 Ω

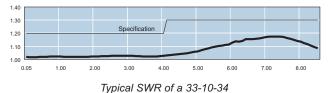
 FREQUENCY RANGE:
 dc to 8.5 GHz

#### 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

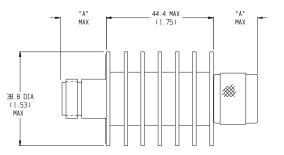
**TEST DATA:** Insertion loss test data supplied at 0.05, 4.0, and 8.0 GHz. Other test data can be provided at additional cost.

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

<u>Options</u>	<b>Description</b>	<u>Options</u>	<b>Description</b>
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:

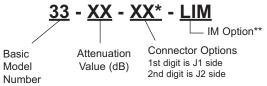


Connector	DIM A	Connector	DIM A
N Male	22.9 (0.90)	2.92mm Female	14.0 (0.55)
N Female	15.0 (0.59)	2.92mm Male	

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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