Fixed Coaxial Attenuators

api technologies corp. › WEINSCHEL

Model 86
Medium Power, 3.5mm Connectors
Conduction Cooled, Bi-directional Design

dc to 22.0 GHz
50 Watts

RoHS

Features

- **Compact Construction -** Lowest size/power ratio.
- **Precision Injection Molded Connectors.**
- **Designed to meet environmental requirements of MIL-DTL-3933.**
- **Ideal for Airborne or Space Applications.**

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 22.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:	
Nominal ATTN (dB)	Deviation (dB)
3, 6, 10, 20, 30	± 0.80

MAXIMUM SWR: 1.30

POWER RATING 50 watts **average (bi-directional)**, 1 kilowatts **peak** (5 µsec pulse width; 2.5 % duty cycle) with case temperature held within **90°C maximum** with appropriate conductive heat sink.

POWER COEFFICIENT: <0.0003 dB/dB/watt

TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55°C to 90°C (case)

TEST DATA: Swept data plots of attenuation and SWR from 50 MHz to 22 GHz.

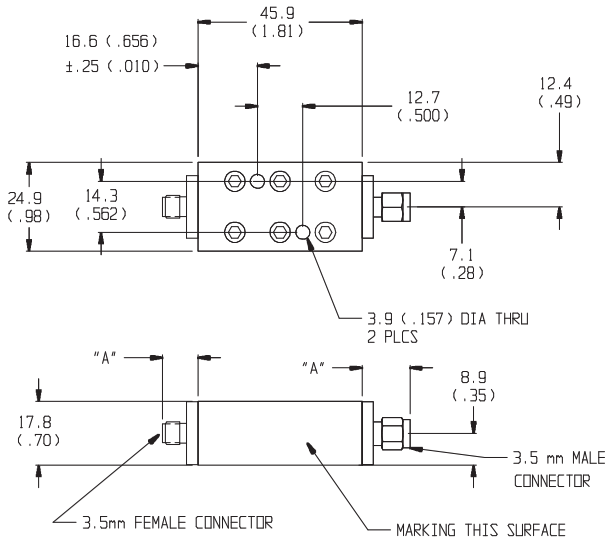
CONNECTORS: 3.5mm connectors - mate nondestructively with SMA per MIL-C-39012, 2.92mm and other 3.5mm connectors.

Options	Description
1	3.5mm Female
2	3.5mm Male

CONSTRUCTION: Aluminum body, stainless steel connectors; gold plated beryllium copper contacts.

WEIGHT: 60 g (2.1 oz.) maximum

PHYSICAL DIMENSIONS:



Connector	DIM A
3.5mm Male	13.4±0.5 (0.53±0.02)
3.5mm Female	9.9±0.5 (0.32±0.02)

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

MODEL NUMBER DESCRIPTION:

Example:

86 - XX - XX

- 86: Basic Model Number
- XX: Attenuation Value (dB)
- XX: Connector Options — 1st digit is J1 side; 2nd digit is J2 side

*Unit is bi-directional and full power may be applied to either J1 or J2.

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