api technologies corp.
› WEINSCHEL

Fixed Coaxial Attenuators

Model 284

dc to 10.0 GHz

50 Watts

Medium Power, N or SMK Connectors

Conduction Cooled, Bi-Directional Design!

☑ RoHS

Features

- **Compact Construction -** Lowest size/power ratio.
- **Precision Connectors with high temperature support beads.**
- **Designed to meet environmental requirements of MIL-DTL-3933.**
- **Wireless Applications** - Optimized for use in the communications bands.

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 10.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY (dB):		
Nominal ATTN (dB)	DC-4 GHz	4-10 GHz
3, 6, 10, 20	± 0.40	± 0.75
30, 40	± 0.60	± 1.00

MAXIMUM SWR:	
Frequency (GHz)	SWR
dc - 4	1.15
4 - 10	1.30

POWER RATING 50 watts **average (bi-directional)**, 5 kilowatts **peak** (5 µsec pulse width; 0.5 % duty cycle) with case temperature held within **100°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 100°C (case)

TEST DATA: Swept data plots of attenuation and SWR from 50 MHz to 10 GHz.

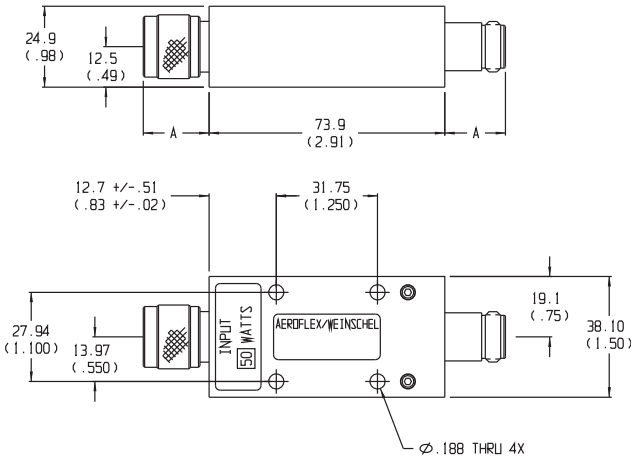
CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. SMK (2.92mm) connectors - mate nondestructively with SMA per MIL-C-39012, 3.5mm, SMK, and other 2.92mm connectors.

Options	Description	Options	Description
1	SMK Female	3	Type N Female
2	SMK Male	4	Type N Male

CONSTRUCTION: Aluminum body, stainless steel connectors; 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 Male	14.0 (0.55)
N Female	15.0 (0.59)	2.92mm Female	12.7 (0.50)

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

MODEL NUMBER DESCRIPTION:

Example:

284 - XX - XX*

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

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

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