

Model 78 Medium Power Fixed Coaxial Attenuators

**dc to 5.0 GHz
50 Watts**

Low IM Design, 7/16 Connectors!



Features

- /// Optimized for Wireless OEM & Test Applications.
- /// Low Intermodulation Design.
- /// Designed to meet environmental requirements of MIL-A-3933.

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 5.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:

Nominal ATTN (dB)	Deviation (dB)
10, 20	± 1.00
30	± 1.25

MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 3	1.20
3 - 5	1.30

3rd ORDER INTERMODULATION: 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 20 Watts of input power.

POWER RATING (mounted horizontally): 50 watts average (bi-directional) to 25°C ambient temperature, derated linearly to 2.5 watts @ 125°C. Note: 3 dB model can handle 100 Watts average (bi-directional). 5 kilowatt peak (5 μ sec pulse width; 0.5% duty cycle).

POWER COEFFICIENT: <0.001 dB/dB/watt

TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55 °C to 125 °C

CALIBRATION: Insertion loss test data supplied at 0.05, 1.0, 2.0, 3.0, 4.0 and 5.0 GHz. Other test data can be provided at additional cost.

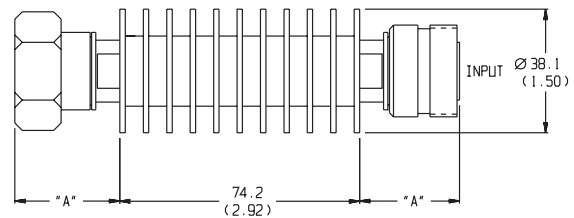
CONNECTORS: 7/16 connector that conforms to DIN 47223, IEC 169-4, VG 95250, CECC 22 190.

Connector Options	Type/Description
1	7/16 Female
2	7/16 Male

CONSTRUCTION: Black, finned aluminum body, silver plated brass connectors.

WEIGHT: 392 g (14 oz.) maximum

PHYSICAL DIMENSIONS:

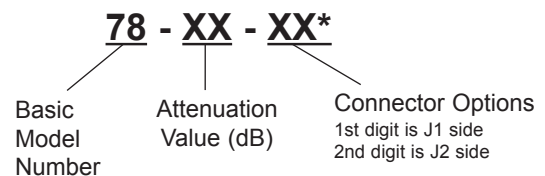


Connector	DIM A
7/16 Male	32.3 (1.27)
7/16 Female	30.7 (1.21)

NOTE: All dimensions are given in mm (inches) and tolerances are X.X \pm 0.8 (0.03) unless otherwise specified.

MODEL NUMBER DESCRIPTION:

Example:



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