

Fixed Coaxial Attenuators

Models 32J High Reliability, SMK Connectors Suitable for Space & Airborne Applications

dc to 32.0 GHz
 2 Watts



Features

- /// Available in 0.5 dB increments from 0-30 dB.
- /// Rugged injection molded connectors.
- /// Designed to meet environmental requirements of MIL-DTL-3933.
- /// 100% Subjected to Thermal Shock, Peak Power & Monitored Thermal Cycle (MTC).

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 32.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:

Nominal ATTN (dB)	Deviation (dB)
0	+ 0.5 / -0.0
0.5 - 12	± 0.50
12.5 - 20	± 1.00
20.5 - 30	± 2.00

MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 32	1.25

POWER RATING: 2 watts **average** to 25°C ambient temperature, derated linearly to 0.5 watts at 100°C. 500 watts **peak** (5 μsec pulse width; 0.2% duty cycle).

POWER COEFFICIENT: < 0.005 dB/dB/watts

TEMPERATURE COEFFICIENT: < 0.0004 dB/dB/°C

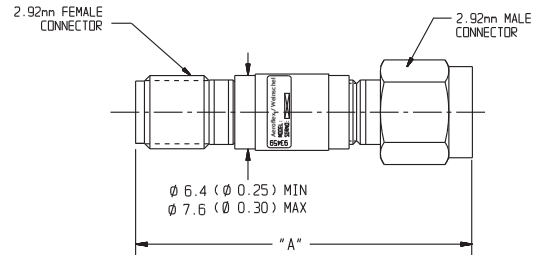
TEMPERATURE RANGE: -55°C to +100°C

CONNECTORS: SMK (2.92mm) connectors - mate nondestructively with SMA, 3.5mm and SMK (2.92mm) connectors.

CONSTRUCTION: Passivated stainless steel body and connectors; gold plated beryllium copper contacts. Each unit is sealed using low outgassing sealant.

WEIGHT: 13 g (0.46 oz)

PHYSICAL DIMENSIONS:



dB VALUE	DIM A ± 0.5 (0.02)
0-12	28.6 (1.15)
12.5-20	31.2 (1.23)
20.5-30	33.8 (1.33)

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

Screening

Units are screened 100% as follows:

Thermal Shock: 10 cycles, -55°C to +100°C

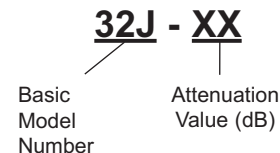
Peak Power: 500 Watts, 5 μsec pulse width; 0.05% duty cycle for 3 minutes at each end. DC Attenuation is measured before and after peak power.

Monitored Thermal Cycle: Units are subjected to 10 thermal cycles between -55 °C to +100 °C. The PIN-to-PIN DC resistance is continuously monitored and stored.

Attenuation and SWR are tested as final electrical test.

MODEL NUMBER DESCRIPTION:

Example:



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