



Model 32J & 87 High Reliability Fixed Coaxial Attenuators

dc to 32.0 GHz
2 Watts



Suitable for Space & Airborne Applications



Features

- /// Available in 0.5 dB increments from 0-30 dB.
- /// Rugged injection molded connectors.
- /// Designed to meet environmental requirements of MIL-A-3933.
- /// Model 32J is 100% Subjected to Thermal Shock & Peak Power Tests.
- /// New Lower Cost Commercial Version, Model 87.

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

TESTING & CALIBRATION (Model 32J Only): Units are screened by lot as follows:

Thermal Shock: 10 cycles, -55 C to +100 °C, 1/2 hour each cycle. Attenuation is measured before and after thermal shock.

Peak Power: 500 Watts, 6000 cycles, 5 msec pulse width; 0.2% duty cycle at each end. Test attenuation before and after at DC, permissible change of 0.01 dB, resubmit to peak power one time, if required, to stabilize resistive element.

Attenuation and SWR are tested as final electrical test. Test data is available at additional cost.

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

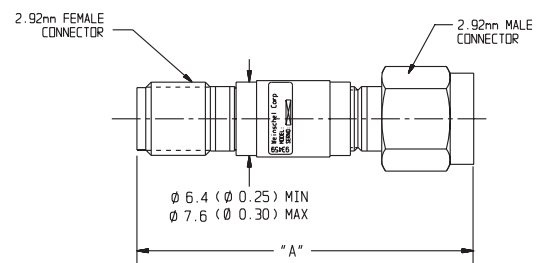
K® is a registered Trademark of Anritsu Wiltron 2.92mm connector.

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

WEIGHT (Both Models):

dB VALUE	WEIGHT (Maximum)
0 - 12	4 g (0.14 oz)
12.5 - 20	4.3 g (0.15 oz)
20.5 - 30	4.6 g (0.16 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.

MODEL NUMBER DESCRIPTION:

Example:

