

## Models 32J High Reliability Fixed Coaxial Attenuator

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-DTL-3933.
- /// 100% Subjected to Thermal Shock & Peak Power Tests.

### Specifications

**NOMINAL IMPEDANCE:** 50  $\Omega$

**FREQUENCY RANGE:** dc to 32.0 GHz

#### MAXIMUM DEVIATION OVER FREQUENCY:

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

#### 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  $\mu$ sec pulse width; 0.2% duty cycle).

**POWER COEFFICIENT:** < 0.005 dB/dB/watts

**TEMPERATURE COEFFICIENT:** < 0.0004 dB/dB/°C

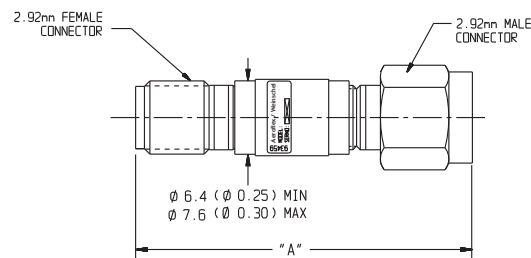
**TEMPERATURE RANGE:** -55°C to +100°C

**CONNECTORS:** 2.92mm connectors - mate nondestructively with SMA connectors per MIL-C-39012, 3.5mm, SMK, and other 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 $\pm 0.5$ (0.02)
0-12	28.6 (1.15)
12.5-20	31.2 (1.23)
20.5-30	33.8 (1.33)

#### NOTE:

1. All dimensions are given in mm (inches) and are maximum, unless otherwise specified.
2. Unit available with RoHS compliant materials, specify when ordering.

### Screening

Units are screened by lot as follows:

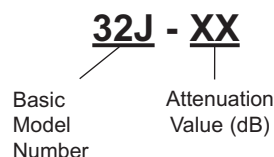
**Thermal Shock:** 10 cycles, -55 °C to +100 °C, with a minimum of 1/2 hour dwell time at each temperature extreme. Attenuation is measured before and after thermal shock.

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

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

#### MODEL NUMBER DESCRIPTION:

Example:



#### EXPORT CONTROL:

This product is controlled for export under the International Traffic in Arms Regulations (ITAR). A license from the U.S. Department of State is required prior to the export of this product from the United States.

#### EXPORT WARNING:

Aeroflex's military and space products are controlled for export under the International Traffic in Arms Regulations (ITAR) and may not be sold or proposed or offered for sale to certain countries. (See ITAR 126.1 for complete information.)