

Fixed Coaxial Attenuators



Models 32K High Reliability Fixed Coaxial Attenuator

dc to 42.0 GHz
2 Watts



2.92mm (SMK) Connectors



Features

- /// Ideal for Space & Airborne Applications.
- /// Available in 3, 6, 10, 20 & 30 dB. Custom values available.
- /// Rugged injection molded connectors.
- /// Designed to meet environmental requirements of MIL-DTL-3933.
- /// 100% Subjected to Monitored Thermal Cycle (MTC) & Peak Power Tests.

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 42.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:		
Nominal ATTN (dB)	Deviation (dB)	
	dc-26.5 GHz	26.5-42 GHz
3, 6	± 0.50	± 1.00
10, 20, 30	± 0.80	± 1.50

MAXIMUM SWR:	
Frequency (GHz)	SWR
dc - 26.5	1.25
26.5 - 42	1.45

POWER RATING: 2 watts **average** to 25 °C ambient temperature, derated linearly to 0.2 watt at 100 °C. 200 watts **peak** (5 μsec pulse width; 0.05 % duty cycle).

POWER COEFFICIENT: < 0.004 dB/dB/watts

TEMPERATURE COEFFICIENT: < 0.0004 dB/dB/°C

TEMPERATURE RANGE: -55 °C to +100 °C

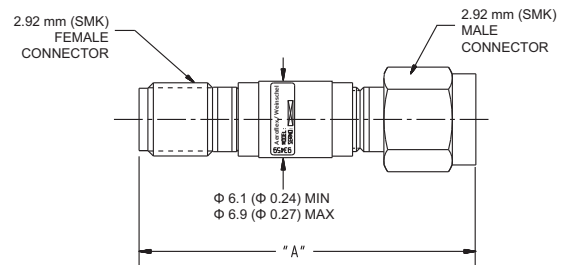
TEST DATA: Attenuation and SWR Testing performed across frequency range. Test data available at additional cost.

CONNECTORS: 2.92mm (SMK) connectors - mate nondestructively with SMA connectors per MIL-C-39012, 3.5mm and other 2.92mm (SMK) connectors.

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

WEIGHT: 8 g (0.3 oz.) maximum

PHYSICAL DIMENSIONS:



Model	DIM A +/-0.5mm (0.02inch)
32K	38.0 (1.50)
F32K	36.6 (1.44)
M32K	39.6 (1.56)

NOTE: All dimensions are given in mm (inches).

Screening

Units are screened 100% as follows:

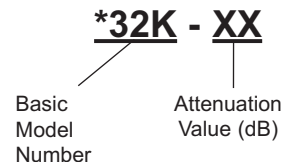
Monitored Thermal Cycle: Units are subjected to 10 thermal cycles between -55 °C to +100 °C. The PIN-to-PIN DC resistance is continuously monitored and stored.

Peak Power: 200 Watts, 5 μsec 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.

MODEL NUMBER DESCRIPTION:

Example:



* Add Prefix M for double male and F for double female connectors.

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.)