

## Model 32K High Reliability, SMK Connectors Suitable for Space & Airborne Applications

dc to 40.0 GHz  
2 Watts



### Features

- /// Usable to 42 GHz.
- /// Ideal for Space & Airborne Applications.
- /// Available in 3, 6, 10, 20 & 30 dB. Other values available upon request.
- /// Precision 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 40.0 GHz

#### MAXIMUM DEVIATION OVER FREQUENCY:

Nominal ATTN (dB)	Deviation (dB)	
	dc-26.5 GHz	26.5-40 GHz
3, 6, 10	± 0.50	± 1.00
20, 30	± 0.80	± 1.50

#### MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 26.5	1.25
26.5 - 40	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; 0.5 % duty cycle).

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

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

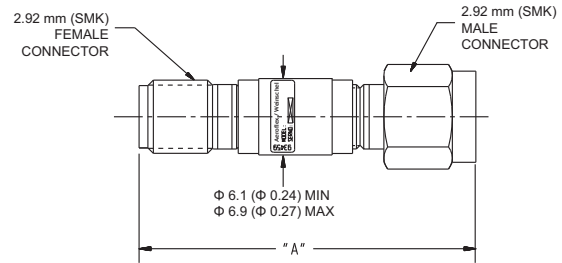
**TEMPERATURE RANGE:** -55 °C to +100 °C

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

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

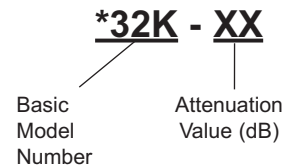
**Peak Power:** 200 Watts, 5 μsec pulse width; 0.05% duty cycle for 3 minutes at each end. DC Attenuation is measured before and after peak power.

**Monitored Thermal Cycle:** Units are subjected to 15 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:**



\* 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.)