

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

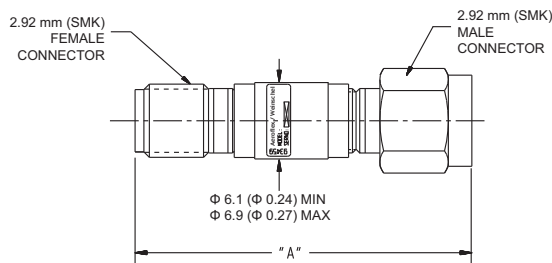
TEMPERATURE RANGE: -55 °C to +100 °C

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

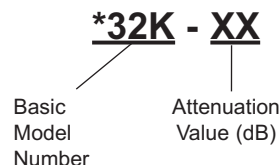
Peak Power: 200 Watts, 5 μsec pulse width; 0.05% duty cycle for 3 minutes at each end. DC Attenuation is measured before and after peak power.

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 document contains controlled technical data under the jurisdiction of The Export Administration Regulations (EAR), 15 CFR 730-774. It cannot be transferred to any foreign third party without the specific prior approval of the U.S. Department of Commerce Bureau of Industry and Security (BIS) Violations of these regulations are punishable by fine, imprisonment or both.

A license from the U.S. Department of Commerce is required prior to the export of this product from the United States.