

## Model 274 High Reliability, SMA Connectors

dc to 18.0 GHz  
2 Watts



Designed to meet requirements of  
MIL-DTL-3933, CLASS III/IV, N/S



### Features

- /// Rugged injection molded connectors.
- /// Screened (Model 274S) and Non-screened (Model 274N) designs available.
- /// Available in 0 - 20 in 0.5 dB steps, 30 & 40 dB.
- /// Test Data supplied at additional cost as follows:  
**Non-screened (N):** Swept data plots of Attenuation and SWR across the frequency band.  
**Screened (S):** Swept data plots of Attenuation and SWR across the frequency band. Film, Standard data package includes lot record performance showing pass/fail quantities for all tests and test reports as applicable.

### Specifications

**NOMINAL IMPEDANCE:** 50 Ω  
**FREQUENCY RANGE:** dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:	
Nominal ATTN (dB)	dB
0 - 2	± 0.50
3 - 6	± 0.30
7 - 12	± 0.50
20	± 0.70
30, 40	± 1.00

MAXIMUM SWR:	
Frequency (GHz)	SWR
dc - 4	1.15
4 - 8	1.20
8 - 12.4	1.25
12.4 - 18	1.35

**POWER RATING:** 2 watts **average** to 25°C ambient temperature, derated linearly to 0.5 watts at 125°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 +125°C

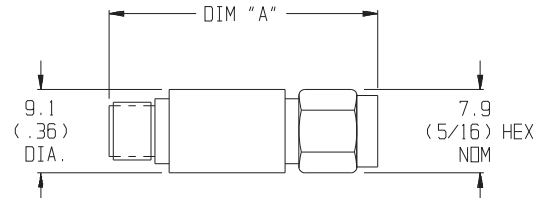
**CONNECTORS:** SMA connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

**CONSTRUCTION:** Passivated stainless steel body and connectors; gold plated beryllium copper contacts.

### WEIGHT:

dB VALUE	WEIGHT (Net)
0 - 20	10 g (0.35 oz)
30, 40	20 g (0.70 oz)

### PHYSICAL DIMENSIONS:



dB VALUE	DIM A ± 0.5 (0.02)		
	STD	Prefix F	Prefix M
0 - 10, 20	30.5 (1.20)	29.7 (1.17)	32.3 (1.27)
30, 40	47.0 (1.85)	46.2 (1.82)	47.7 (1.88)

NOTE: All dimensions are given in mm (inches) and are maximum, unless otherwise specified.

### Screening

Units are screened as follows:

#### "N" versions:

- SWR
- Attenuation
- Peak Power

#### "S" versions:

- Thermal Shock
- Monitored Thermal Cycle (MTC)
- Attenuation w/Parts Assembly Verification (PAV)
- Conditioning
- Peak Power
- Attenuation
- SWR
- Radiographics

### MODEL NUMBER DESCRIPTION:

Example:

