

Model 272 High Reliability, N 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 272S) and Non-screened (Model 272N) designs available.
- /// Available in 1- 10, 20, 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 |
|-------------------|--------|
| 1 - 9 | ± 0.30 |
| 10 | ± 0.40 |
| 20 | ± 0.50 |
| 30, 40 | ± 0.75 |

MAXIMUM SWR:

| Frequency (GHz) | SWR |
|-----------------|------|
| dc - 4 | 1.12 |
| 4 - 8 | 1.15 |
| 8 - 12.4 | 1.18 |
| 12.4 - 18 | 1.20 |

POWER RATING: 5 watts **average** @ 25°C ambient temperature, derated linearly to 0.5 watt @ 125°C. 1 kilowatt **peak** (5 μsec pulse width; 0.25% duty cycle)

POWER COEFFICIENT: <0.005 dB/dB/Watt

TEMPERATURE COEFFICIENT: < 0.0004 dB/dB/°C

TEMPERATURE RANGE: -55°C to +125°C

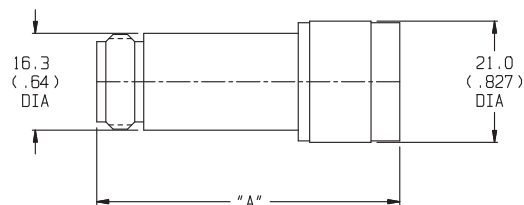
CONNECTORS: Precision Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

CONSTRUCTION: Stainless steel body and connectors; gold plated beryllium copper contacts.

WEIGHT:

| dB VALUE | WEIGHT (Net) |
|----------------|----------------|
| 1 - 10, 20, 30 | 70 g (2.6 oz) |
| 40 | 100 g (3.6 oz) |

PHYSICAL DIMENSIONS:



| dB VALUE | DIM A |
|--------------|-------------|
| 1-10, 20, 30 | 57.9 (2.28) |
| 40 | 68.1 (2.68) |

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
- Conditioning
- Peak Power
- Attenuation
- SWR
- Radiographics

MODEL NUMBER DESCRIPTION:

Example:

