

## Model 7003 Inside DC Block

## 9 kHz to 18.6 GHz

### Type N Connectors



### Features

Aeroflex / Weinschel Inside dc Block contains capacitance in-series with the center conductor to prevent the flow of dc current, while permitting RF power to flow without interruption.

- /// **Low SWR** - Maximum SWR remains low through full frequency and power range.
- /// **Rugged Construction** - Aeroflex / Weinschel semi-precision Type N stainless steel connectors. Molded captive inner contact/bead assembly provides controlled and stable interface dimensions.
- /// **Model 7003 useable to 22 GHz.**

### Specifications

**NOMINAL IMPEDANCE:** 50 Ω  
**FREQUENCY RANGE:** 9 kHz to 18.6 GHz

MAXIMUM SWR:	
Frequency (GHz)	SWR*
9 - 20 kHz	1.50
20 kHz - 18	1.35

\* Source & load SWR of test system is <1.2.

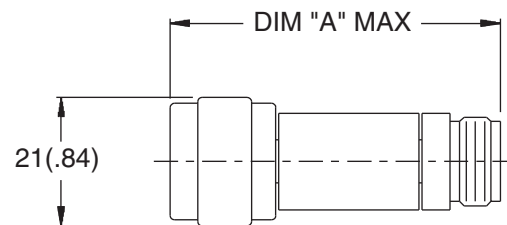
- INSERTION LOSS:** 0.9 dB maximum
- VOLTAGE RATING:** +50 Vdc maximum
- POWER RATING:** 20 Watts (average), 100 Watts (peak)
- TEMPERATURE RANGE:** -20 °C to +80 °C (operating)  
-20 °C to +100 °C (storage)
- TEST DATA:** Test data is available at additional cost.

**CONNECTORS:** Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. Standard unit has one male and one female connector. Add Prefix M for double male and F for double female connectors.

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

**WEIGHT:** Net: 67 g (2.4 oz)

### PHYSICAL DIMENSIONS:



Model #	DIM A	Connector Type
7003	54.61 (2.15)	male-female
F7003	50.80 (2.00)	female-female
M7003	58.67 (2.31)	male-male

### NOTE:

1. All dimensions are given in mm (inches) and are maximum, unless otherwise specified.
2. Unit available with RoHS compliant materials, specify when ordering.

### SCHEMATIC DIAGRAM:

