

# DC Blocks Model 7003

**RoHS**

Inside DC Block  
Type N Connectors

**9 kHz to 18.6 GHz**

## Features

APITech 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:** APITech Weinschel semi-precision Type N stainless steel connectors. Molded captive inner contact/bead assembly provides controlled and stable interface dimensions.
- **Model 7003 usable 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.

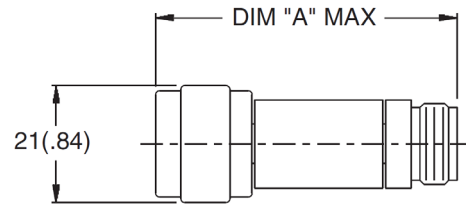
**Connectors:** Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. Standard unit has one male and one female connector. Add Prefix M for double male and F for double female connectors.



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

**Schematic Diagram:**

