## Models FD7003, F7003 Model 7006-1 Model FD7006 Inside DC Block

Choice of Type N or SMA Connectors



### **Features**

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 semi-precision Type N and SMA stainless steel connectors. Molded captive inner contact/bead assembly provides controlled and stable interface dimensions.
- // Model 7003 useable to 22 GHz.

### **Specifications**

20 kHz - 18

18 - 26.5 (20.0)

NOMINAL IMPEDANCE: 50  $\Omega$  FREQUENCY RANGE:

FD7003, F7003: 9 kHz to 18.0 GHz 7006-1: 9 kHz to 20 GHz FD7006: 9 kHz to 26.5 GHz

# MAXIMUM SWR: Frequency (GHz) FD7003 F7003\* FD7006\* 7006-1 9 - 10 kHz 1.50 1.45 1.50 11 - 20 kHz 1.35 1.35 1.50

1.35

**INSERTION LOSS:** Model FD7003, F7003: 0.9 dB max.

Model 7006-1, FD7006: 0.8 dB max.\*

1.35

1.70

1.30

1.20

VOLTAGE RATING: +50 Vdc maximum

**POWER RATING:** 2 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.

9 kHz to 18.0 GHz 9 kHz to 20.0 GHz 9 kHz to 26.5 GHz

**CONNECTORS:** Type N (Model 7003) or SMA (Model 7006) 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 F for double female connectors for the 7003 series only.

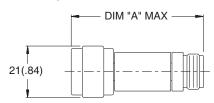
**CONSTRUCTION:** Stainless steel body and connectors; gold plated beryllium copper contacts

**WEIGHT:** FD7003, F7003: Net: 67 g (2.4 oz)

Model FD7006, 7006-1: Net: 4 g (0.14 oz)

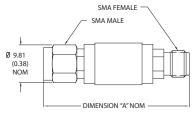
### **PHYSICAL DIMENSIONS:**

Models FD7003, F7003:



Model #	DIM A	Connector Type
FD7003	54.61 (2.15)	male-female
F7003	50.80 (2.00)	female-female

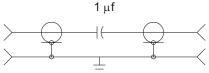
### Models FD7006, 7006-1:



Model #	DIM A	Connector Type
FD7006	37.34 (1.47)	male-female
7006-1	37.34 (1.47)	male-female

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

#### **SCHEMATIC DIAGRAM:**





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