

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

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

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** - Aeroflex / Weinschel 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

NOMINAL IMPEDANCE: 50 Ω

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
20 kHz - 18	1.35	1.35	1.30
18 - 26.5 (20.0)	- - -	1.70	1.20

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

INSERTION LOSS: Model FD7003, F7003: 0.9 dB max.
Model 7006-1, FD7006: 0.8 dB max.*

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.

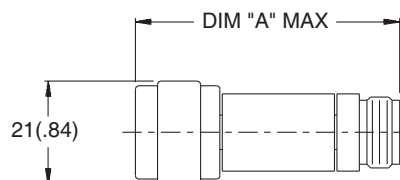
CONNECTORS: Type N (Model 7003) or SMA (Model 7006) connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. Standard unit has one male and one female connector. Add Prefix F for double female connectors for the 7003 series only.

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)

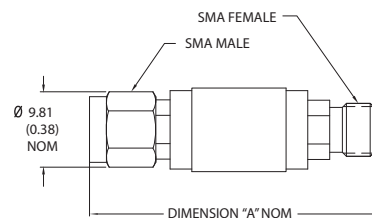
PHYSICAL DIMENSIONS:

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:

