

# DC Blocks



## Model 7006 Inside DC Block

9 kHz to 26.5 GHz

### Rugged SMA 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 and SMA stainless steel connectors. Molded captive inner contact/bead assembly provides controlled and stable interface dimensions.

#### Specifications

**NOMINAL IMPEDANCE:** 50 Ω

**FREQUENCY RANGE:** 9 kHz to 26.5 GHz

##### MAXIMUM SWR:

| Frequency (GHz) | 7006* |
|-----------------|-------|
| 9 - 20 kHz      | 1.50  |
| 20 kHz - 20     | 1.35  |
| 20 - 26.5       | 1.70  |

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

**INSERTION LOSS:** 0.8 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)

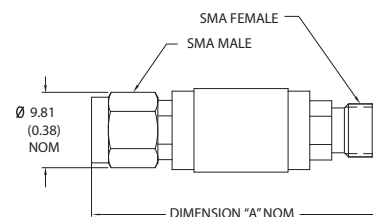
**TEST DATA:** Test data is available at additional cost.

**CONNECTORS:** SMA 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: 4 g (0.14 oz)

#### PHYSICAL DIMENSIONS:



| Model # | DIM A        | Connector Type |
|---------|--------------|----------------|
| 7006    | 36.32 (1.43) | male-female    |
| F7006   | 33.53 (1.32) | female-female  |
| M7006   | 35.05 (1.38) | male-male      |

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

#### SCHEMATIC DIAGRAM:

