

# DC Blocks

## Model 7006-1 Inside DC Block

Rugged SMA Connectors

**RoHS**

**9 kHz to 20.0 GHz**



### Features

APITech's 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 semi-precision 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 20 Ghz

Maximum SWR:	
Frequency (GHz)	7006-1
9 - 10 kHz	1.50
11 - 20 kHz	1.50
20 kHz - 20.0	1.30

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

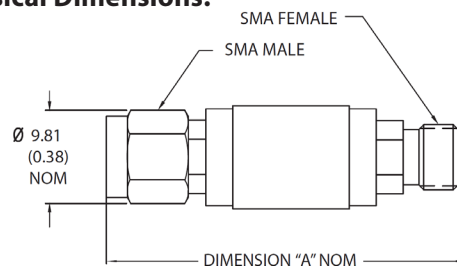
**Insertion Loss:** 0.8 dB maximum\*  
**Voltage Rating:** +50 Vdc maximum  
**Power Rating:** 20 Watts (average)  
 100 Watts (peak)  
**Temperature Range:** -20 °C to +80 °C (operating)  
 -20 °C to +100 °C (storage)  
**Insertion Loss:** 0.8 dB maximum  
 (0.5 dB typical @ 18 GHz)  
**Test Data:** Test data is available at additional cost.

**Connectors:** SMA connectors per MIL-STD-348 inter-face 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: 4g (0.14oz)

### Physical Dimensions:



Model #	DIM A	Connector Type
7006-1	37.34 (1.47)	male-female
F7006-1	34.54 (1.36)	female-female
M7006-1	36.07 (1.42)	male-male

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

### Schematic Diagram:

