DC Blocks

Model 7006-1
Inside DC Block

Rugged SMA Connectors

Features
API 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 - API Weinschel 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:

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>SWR</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 - 10 kHz</td>
<td>1.50</td>
</tr>
<tr>
<td>11 - 20 kHz</td>
<td>1.50</td>
</tr>
<tr>
<td>20 kHz - 20.0</td>
<td>1.30</td>
</tr>
</tbody>
</table>

INERTION 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:

<table>
<thead>
<tr>
<th>Model #</th>
<th>DIM A</th>
<th>Connector Type</th>
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</thead>
<tbody>
<tr>
<td>7006-1</td>
<td>37.34 (1.47)</td>
<td>male-female</td>
</tr>
<tr>
<td>F7006-1</td>
<td>34.54 (1.36)</td>
<td>female-female</td>
</tr>
<tr>
<td>M7006-1</td>
<td>36.07 (1.42)</td>
<td>male-male</td>
</tr>
</tbody>
</table>

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

Schematic Diagram: