**BIAS TEES**

**SMA**

**100 VOLTS / 2.5 AMPS**

**Models:** 8800SMFX-YY, 8800SFFX-YY, 8800SMMX-YY, 8800SFMX-YY

**Specifications:**

- **Electrical:**
  - Frequency Range: 10 MHz – 12 GHz
  - Standard Freq. Values: 2.5, 4, 6, 9 & 12 GHz
  - Insertion Loss:
    - 10 MHz – 30 MHz: Typical 1.00 dB, Maximum 1.25 dB
    - 30 MHz – 2.5 GHz: Typical 0.50 dB, Maximum 1.00 dB
    - 2.5 – 6 GHz: Typical 1.00 dB, Maximum 1.25 dB
    - 6 – 9 GHz: Typical 1.50 dB, Maximum 2.00 dB
    - 9 – 12 GHz: Typical 2.00 dB, Maximum 3.00 dB
  - VSWR:
    - Typical: 30 MHz – 2.5 GHz: 1.40:1, 2.5 GHz – 4 GHz: 1.30:1, 4 – 6 GHz: 1.40:1, 6 – 9 GHz: 1.50:1, 9 – 12 GHz: 1.75:1
    - Maximum: 30 MHz – 2.5 GHz: 1.50:1, 2.5 GHz – 4 GHz: 1.50:1, 4 – 6 GHz: 1.50:1, 6 – 9 GHz: 1.80:1, 9 – 12 GHz: 2.00:1
  - Isolation (RF to Bias Port): > 30dB Typ.
  - 3dB Bandwidth: 5 MHz – 15 GHz
  - Impedance: 50 Ohms
  - Bias-Path Resistance: 0.04 Ohms Typ., 0.05 Ohms Max.
  - DC Voltage: 100 VDC Max.
  - DC Current: 2.5 Amps Max.
  - RF Power: 5 Watts Max
  - Current Rating vs Temperature: See Graph

- **Environmental:**
  - Operating Temperature Range: -55°C to +105°C
  - Storage Temperature Range: -60°C to +90°C

- **Mechanical:**
  - SMA Connectors: Passivated Stainless Steel
  - BNC Connectors: Nickel Plated Brass
  - Conductor: Gold Plated Beryllium Copper
  - Body: Aluminum with Chemical Conversion Coating

**DC Input Connector Options**

- **Solder Post, X=1**
- **BNC Female, X=3**

**Model Numbers**

| Model Numbers | Connector Configuration Port | Overall Length Max.
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>8800SMFX-YY</td>
<td>Male</td>
<td>1.77 [44.96]</td>
</tr>
<tr>
<td>8800SFFX-YY</td>
<td>Female</td>
<td>1.67 [42.42]</td>
</tr>
<tr>
<td>8800SMMX-YY</td>
<td>Male</td>
<td>1.82 [46.77]</td>
</tr>
<tr>
<td>8800SFMX-YY</td>
<td>Female</td>
<td>1.77 [44.96]</td>
</tr>
</tbody>
</table>

**How to Order:**

Model Number: 8800SZXX-YY

- **Freq. Range:**
  - 02 = 10 MHz – 2.5 GHz
  - 04 = 10 MHz – 4 GHz
  - 06 = 10 MHz – 6 GHz
  - 09 = 10 MHz – 9 GHz
  - 12 = 10 MHz – 12 GHz

**Ordering Examples:**

- Model Number: 8800SFFX-YY
- Model Number: 8800SFMX-YY

Note: Dimensions in Brackets are Expressed in Millimeters and are for Reference Only. Design specifications are subject to change without notice. Contact factory for technical specifications before purchasing or use.
ADDITIONAL INFORMATION
Typical performance from 5 MHz - 9 GHz

NOTE: DIMENSIONS IN BRACKETS ARE EXPRESSED IN MILLIMETERS AND ARE FOR REFERENCE ONLY.