PRECISION ADAPTERS:
DC TO 110 GHz

Low VSWR
Low Insertion Loss
Low RF Leakage
High Temperature
Rugged & Durable
Excellent Repeatability
Southwest Microwave offers a full range of within-series and between-series precision adapters with near-metrology grade performance.

- High performing connector savers, DC to 110 GHz
- Economical solution for critical production and testing
- Approved for demanding environments such as Space and other Hi-Rel applications
- High repeatability and accuracy
- Available in various configurations

### SPECIFICATIONS

#### ELECTRICAL

**Low VSWR:**
- DC to 18.0 GHz: 1.10:1 Max
- 18.0 to 27.0 GHz: 1.15:1 Max
- 27 to 40 GHz: 1.15:1 Max
- 40 to 50 GHz: 1.18:1 Max
- 50 to 67 GHz: 1.25:1 Max
- 67 to 110 GHz: 1.28:1 Max

**Low RF Leakage:** ≤ -100 dB

**Low Insertion Loss**

#### TEMPERATURE

-55°C to +165°C:
  - N-to-SMA, SMA-to-SMA, 2.92 mm-to-1.85 mm,
  - 1.85 mm-to-1.85 mm, 1.85 mm-to-0.9 mm,
  - 0.9 mm-to-0.9 mm, 0.9 mm-to-1.0 mm and 1.0 mm-to-1.0 mm

-55°C to +135°C:
  - All other adapters

#### TEST DATA

Test data is available at southwestmicrowave.com

### 1.0 mm (W) (110 GHz)

- 2430-00SF F to M
- 2431-00SF M to M
- 2432-00SF F to F

### 1.85 mm (V) to 1.0 mm (W) (67 GHz)

- 182410-00SF F to F
- 182420-00SF F to M
- 182430-00SF M to F
- 182440-00SF M to M

### 1.85 mm (V) (67 GHz)

- 1830-00SF F to M
- 1830-02SF F to M (NMD)
- 1831-00SF M to M
- 1832-00SF F to F
- 1832-02SF F to F (Bulkhead)
### 2.40 mm (50 GHz)

- **1430-00SF**: F to M
- **1431-00SF**: M to M
- **1432-00SF**: F to F

### 2.92 mm (K) to 1.85 mm (V) (40 GHz)

- **101810-00SF**: F to F
- **101820-00SF**: F to M
- **101830-00SF**: M to F
- **101840-00SF**: M to M

### 2.92 mm (K) to 2.40 mm (40 GHz)

- **101410-00SF**: F to F
- **101420-00SF**: F to M
- **101430-00SF**: M to F
- **101440-00SF**: M to M

### 2.92 mm (K) (40 GHz)

- **1030-00SF**: F to M
- **1031-00SF**: M to M
- **1032-00SF**: F to F
- **1030-10SF**: F to M (Bulkhead)
- **1032-10SF**: F to F (Bulkhead)
- **1032-13SF**: F to F (Bulkhead) (Flange Mount)

O-Ring not included.

### 3.5 mm to 2.40 mm (33 GHz)

- **61410-00SF**: F to F
- **61420-00SF**: F to M
- **61430-00SF**: M to F
- **61440-00SF**: M to M
## SMA (27 GHz)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Connector Type 1</th>
<th>Connector Type 2</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>230-506SF</td>
<td>F to M</td>
<td></td>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td>231-502SF</td>
<td>M to M</td>
<td></td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td>232-502SF</td>
<td>F to F</td>
<td></td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td>232-510SF</td>
<td>F to F</td>
<td>(Bulkhead)</td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td>232-514SF</td>
<td>F to F</td>
<td>(Un-Threaded Mounting)</td>
<td><img src="image5.png" alt="Image" /></td>
</tr>
</tbody>
</table>

## N to SMA (18 GHz)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Connector Type 1</th>
<th>Connector Type 2</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>2310SF</td>
<td>F to F</td>
<td></td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
<tr>
<td>2320SF</td>
<td>M to M</td>
<td></td>
<td><img src="image7.png" alt="Image" /></td>
</tr>
<tr>
<td>2330SF</td>
<td>F to M</td>
<td></td>
<td><img src="image8.png" alt="Image" /></td>
</tr>
<tr>
<td>2340SF</td>
<td>M to M</td>
<td></td>
<td><img src="image9.png" alt="Image" /></td>
</tr>
<tr>
<td>2311SF</td>
<td>F to M</td>
<td></td>
<td><img src="image10.png" alt="Image" /></td>
</tr>
<tr>
<td>2312SF</td>
<td>F to F</td>
<td></td>
<td><img src="image11.png" alt="Image" /></td>
</tr>
</tbody>
</table>

## SSMA (Airline) to 2.40 mm (40 GHz)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Connector Type 1</th>
<th>Connector Type 2</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>11410-00SF</td>
<td>F to F</td>
<td></td>
<td><img src="image12.png" alt="Image" /></td>
</tr>
<tr>
<td>11420-00SF</td>
<td>F to M</td>
<td></td>
<td><img src="image13.png" alt="Image" /></td>
</tr>
<tr>
<td>11430-00SF</td>
<td>M to F</td>
<td></td>
<td><img src="image14.png" alt="Image" /></td>
</tr>
<tr>
<td>11440-00SF</td>
<td>M to M</td>
<td></td>
<td><img src="image15.png" alt="Image" /></td>
</tr>
</tbody>
</table>

## 0.9 mm SuperMini (67 GHz)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Connector Type 1</th>
<th>Connector Type 2</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>535310-00G</td>
<td>F to F</td>
<td></td>
<td><img src="image16.png" alt="Image" /></td>
</tr>
</tbody>
</table>

## 0.9 mm SuperMini to 1.0 mm (W) (67 GHz)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Connector Type 1</th>
<th>Connector Type 2</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>245220-00SF</td>
<td>M to F</td>
<td></td>
<td><img src="image17.png" alt="Image" /></td>
</tr>
<tr>
<td>245310-00SF</td>
<td>F to F</td>
<td></td>
<td><img src="image18.png" alt="Image" /></td>
</tr>
</tbody>
</table>

## 0.9 mm SuperMini to 1.85 mm (V) (67 GHz)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Connector Type 1</th>
<th>Connector Type 2</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>185220-00G</td>
<td>M to F</td>
<td></td>
<td><img src="image19.png" alt="Image" /></td>
</tr>
<tr>
<td>185240-00G</td>
<td>M to M</td>
<td></td>
<td><img src="image20.png" alt="Image" /></td>
</tr>
<tr>
<td>185310-00G</td>
<td>F to F</td>
<td></td>
<td><img src="image21.png" alt="Image" /></td>
</tr>
<tr>
<td>185330-00G</td>
<td>F to M</td>
<td></td>
<td><img src="image22.png" alt="Image" /></td>
</tr>
</tbody>
</table>