0.9 mm SuperMini DC to 67 GHz

Ultra-Miniature Threaded Coupling Coaxial Assemblies

Low VSWR
Low Insertion Loss
Low RF Leakage
High Temperature
Rugged & Durable
Excellent Repeatability

Southwest Microwave, Inc.
+1 (480) 783-0201 | www.southwestmicrowave.com
**SPECIFICATIONS**

**ELECTRICAL**

Mode Free Through 67 GHz

Low VSWR:
- DC to 18 GHz: 1.13:1 MAX
- 18 GHz to 40 GHz: 1.19:1 MAX
- 40 GHz to 50 GHz: 1.20:1 MAX
- 50 GHz to 67 GHz: 1.25:1 MAX

Low RF Leakage: ≤-100 dB @ 26.5 GHz
Low Insertion Loss

**TEMPERATURE**

-55°C to +165°C

**MATERIALS / CONSTRUCTION**

Materials and finishes vary by product type. For data, refer to website or request Product Drawings and Specifications for desired connector.

**TEST DATA**

Data shown represents two 0.9 mm SuperMini 9 mil pin connectors tested back-to-back with 1.85 mm Jack (F) to 0.9 mm Plug (M) adapters, as calibration standards for the 0.9mm SuperMini interface are not available. To extract VSWR for a single connector with adapter, take the square root of the VSWR data point and divide the insertion loss data point by two.

VSWR = √1.49:1 = 1.22:1 for each connector with adapter, as shown.

Contact Southwest Microwave for performance specifications for all other 0.9 mm SuperMini connectors.
# JACK (FEMALE) CONNECTORS

## FLANGE JACK (FEMALE): 4 HOLES .350 SQUARE

<table>
<thead>
<tr>
<th>Accepts Pin Dia.</th>
<th>Connector No. 1</th>
<th>Connector No. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>.012</td>
<td>53030-001J</td>
<td>53030-002J</td>
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<tr>
<td>.009</td>
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<td></td>
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</tbody>
</table>

## FLANGE JACK (FEMALE): 2 HOLES .438 X .140

<table>
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<th>Connector No. 2</th>
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<tbody>
<tr>
<td>.012</td>
<td>53029-003J</td>
<td>53029-005J</td>
</tr>
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<td>.009</td>
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</table>

## THREAD-IN: STEP THREAD JACK (FEMALE):

### STANDARD #8-36 UNF-2A REAR THREAD

<table>
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</thead>
<tbody>
<tr>
<td>.012</td>
<td>53022-002J</td>
<td>53022-008J</td>
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<td>.009</td>
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## THREAD-IN: STRAIGHT THREAD JACK (FEMALE):

### STANDARD M2.5 X 0.35 STRAIGHT THREAD

<table>
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<th>Connector No. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>.012</td>
<td>53022-007J</td>
<td>53022-006J</td>
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CABLE ASSEMBLIES

Southwest Microwave can supply complete cable assemblies (0.047 and 0.086 cable) to simplify high-performance interface to our full range of 0.9 mm SuperMini connectors. Contact the factory for more information.

PRECISION GRADE ADAPTERS

1.85 mm JACK (F) TO 0.9 mm PLUG (M) ADAPTER: 185220-00G
1.85 MM PLUG (M) TO 0.9 MM PLUG (M): 185240-00G
1.85 mm JACK (F) TO 0.9 mm JACK (F) ADAPTER: 185310-00G
1.85 mm PLUG (M) TO 0.9 mm JACK (F) ADAPTER: 185330-00G

0.9 MM PLUG (M) TO 1.0 MM JACK (F) ADAPTER: 245220-00SF
0.9 MM JACK (F) TO 1.0 MM JACK (F) ADAPTER: 245310-00SF
0.9 MM JACK (F) TO 0.9 MM JACK (F) ADAPTER: 535310-00G
0.9 MM JACK (F) TO 0.9 MM JACK (F) ADAPTER: 535310-00G