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 and Durable
Excellent Repeatability
0.9 mm SuperMini connectors offer the superior performance and quality of Southwest Microwave’s standard-size, high frequency connectors in a miniaturized footprint ideal for reduced-size PCB and panel applications. This versatile new line includes field-replaceable flange mount and thread-in connectors, solder-on end launch and vertical launch connectors plus complete cable assemblies. 0.9 mm SuperMini connectors offer well-matched impedance, excellent repeatability and the industry’s lowest VSWR, insertion loss and RF leakage.

**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.

**SPECIFICATIONS**

**Electrical:**
- Mode Free Through 67 GHz
- Low VSWR:
  - DC to 18.0 GHz .......... 1.13:1 max
  - 18.0 to 40.0 GHz ......... 1.19:1 max
  - 40.0 to 50.0 GHz ......... 1.20:1 max
  - 50.0 to 67.0 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.
FLANGE JACK (FEMALE): 4 HOLE .350 SQUARE

ACCEPITS PIN DIA.  CONNECTOR NO.
.012          53030-001J
.009          53030-002J

FLANGE JACK (FEMALE): 2 HOLE .438 X .140

ACCEPITS PIN DIA.  CONNECTOR NO.
.012          53029-003J
.009          53029-005J

THREAD-IN: STEP THREAD JACK (FEMALE): STANDARD #8-36 UNF-2A REAR THREAD

ACCEPITS PIN DIA.  CONNECTOR NO.
.012          53022-002J
.009          53022-008J

THREAD-IN: STRAIGHT THREAD JACK (FEMALE): STANDARD M2.5 X 0.35 STRAIGHT THREAD

ACCEPITS PIN DIA.  CONNECTOR NO.
.012          53022-007J
.009          53022-006J
THE PERFORMANCE LEADER IN MICROWAVE CONNECTORS

BOARD MOUNT CONNECTORS (SOLDER-ON)

END LAUNCH JACK (FEMALE) 53056-005J

4 POST VERTICAL LAUNCH JACK (FEMALE) 53050-004J

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.

VERTICAL LAUNCH THREAD-IN END LAUNCH FLANGE MOUNT

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

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