

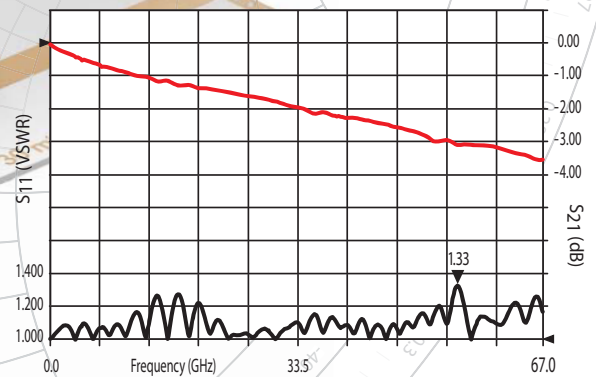
The Performance Leader In Microwave Connectors



Finally! The Perfect Match Between Connector & Circuit

Easy-to-use End Launch Connectors up to 67 GHz
Assure Optimal Signal Integrity

- Available in:
 - SMA (27 GHz)
 - 2.92 mm (40 GHz)
 - 2.40 mm (50 GHz)
 - 1.85 mm (67 GHz)
- Multiple launch configurations to optimize match to circuit
- Unique clamping mechanism for a wide range of board thicknesses and maintains proper grounding
- Robust & reusable
- No soldering required
- Launches to single layer microstrip or multilayer with grounded coplanar
- Launch design assistance available
- Connectors ship fully assembled (board not included)



1.33 is the maximum for two 1892-04A-5 End Launch Connectors on a SMI microstrip test board using .008" Rogers RO4003 microstrip board.

To request a free catalog, or to download online, visit: www.southwestmicrowave.com

Southwest Microwave, Inc.

• Tempe, Arizona USA • 480-783-0201

COMPANY DESCRIPTIONS

Southwest Microwave, Inc. (SMI), established in 1981, is a privately held Arizona corporation. Owned and operated by engineers, including the founders of Omni Spectra. Initial products were perimeter intrusion detection systems and 23 GHz CCTV transmission equipment. In 1987, SMI established the Microwave Products Division (MPD) and began production of high performance microwave connectors for millimeter wave applications. Southwest Microwave's MPD is built on the foundation created by Omni Spectra, inventors of the original precision SMA connector. SMI has a proven record of understanding microwave transitions and supplying only the very best performance connectors in the industry.

MARKETS SERVED

Southwest Microwave serves all high performance microwave commercial, military and space markets. SMI connectors are used in test equipment, communications, radar, defense systems, aerospace, satellite, homeland security, and space programs.



PRODUCTS

Southwest Microwave incorporates proven microwave transmission line principals in all connector designs. These structural features minimize transmission loss and reflections and along with robust housing design provide reliable field serviceable connectors with industry's lowest typical VSWR and RF leakage <-100 dB. Our SMA, N, TNC, SSMA, 2.92 mm and 2.40 mm connectors are recognized as the best performing connectors on the market. Over half of shipments are non-catalog specials including 3.5 mm, direct-solder flange-mounts, microwave switch connectors, waveguide launch connectors, End Launch connectors, plus within and between series adapters, and field service cable assemblies. SMI's COTS connectors can be up-screened for space-level applications. SMI has been delivering S-Level and Hi-Rel connectors for spaceflight applications since 1991. All materials used in Southwest Microwave's connectors are lot-traceable to raw materials and meet NASA outgassing requirements. SMI also offers installation tools and instructions to help optimize connector performance.

TECHNICAL SERVICES

As requirements go higher in frequency, lower frequency launches become ineffective. The launch structure becomes very sensitive to mechanical tolerances, which can limit operation. At Southwest Microwave we learn our customer's circuit structure to provide proper transmission line step down to match the circuit. This helps eliminate transmission line mismatch at the launch point and allows for broad band operation. Our engineers understand microwaves and can tailor a connector that will meet your needs.

QUALITY

Southwest Microwave's MPD is ISO9001 certified and is in compliance with EU directives for RoHS and WEEE. In addition to performing standard quality tests, SMI offers special Hi-Rel testing to meet the most stringent SCD and DPA requirements. SMI uses MIL-PRF-39012 as a reference for interface specifications and test methods. However, SMI recommends additional testing to ensure proper performance, especially temperature cycling to guarantee the interface and that electrical performance is stable over temperature. MIL-PRF-39012 does not require electrical testing after temperature cycling.

FACILITIES

Southwest Microwave operates out of a new 50,000 square-foot facility in Tempe, Arizona. The facility houses design (includes 3D CAD, FEA analysis and RF simulation), manufacturing (with CNC machining), assembly, inspection and test with multiple VNA's to 67 GHz.



For more information about SMI products call **480.783.0201** or visit us at: www.southwestmicrowave.com.