

# NEW Vertical Launch 1.35 mm (E) DC TO 90 GHz (22359-001J)

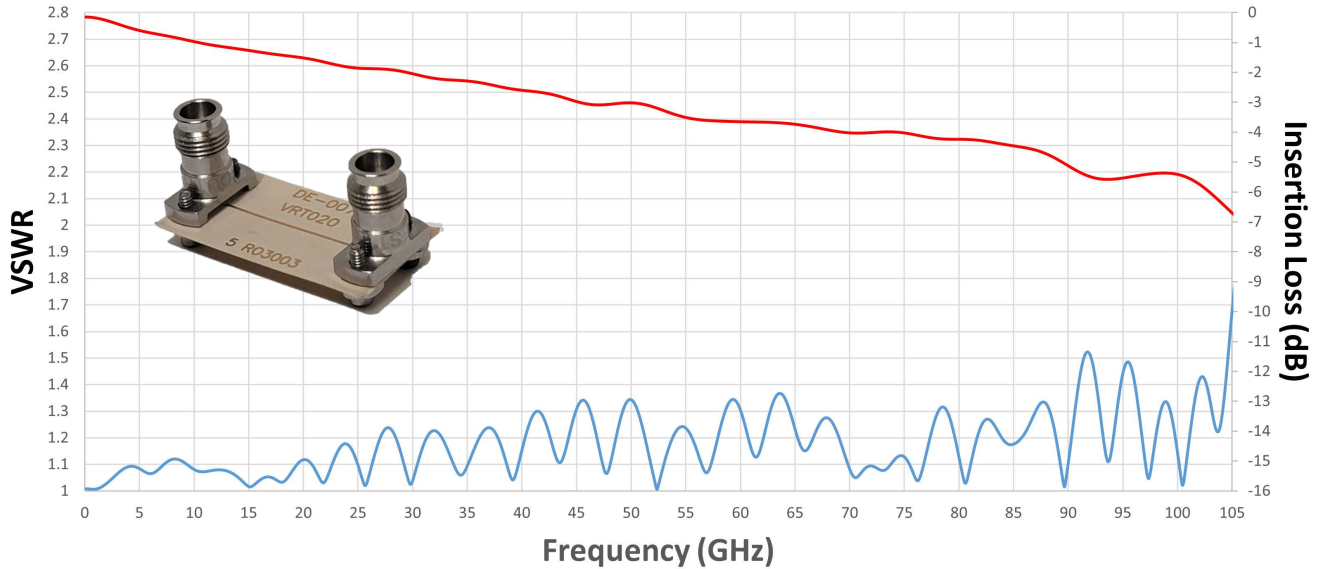


Southwest Microwave, Inc. introduces the 1.35mm Series as the latest addition to its Vertical Launch Connector product line. The 1.35mm (E-Band) DC to 90GHz connectors feature versatile compression mount technology, including a gangway compatible with both microstrip and coplanar waveguide transmission. They maintain optimal signal integrity and return loss all in a field-replaceable package for solder-less installation. Suitable for all applications of surface transmission.

## TYPICAL 1.35 mm (90 GHz) VL TEST DATA

Data represent two 1.35 mm connectors mounted on 5 mil RO3003 Microstrip test board.

Setup includes 2 1.0mm-1.35mm Adapters. Shown response is gated to omit adapter contributions to return loss.



## SPECIFICATIONS

### Materials:

Housing	STEEL, CRESS ALLOY UNS-30300 PER ASTM A582 PASSIVATED PER ASTM A967
Contact	BeCu UNS-C17300 PER ASTM B196/197 GOLD PLATE PER ASTM B488
Capture Bead	ULTEM 1000 PER ASTM D5205

**Electrical:** Electrical performance is dependent on board material and stack-up, and connector PCB layout.

Frequency	Up to 90 GHz
Impedance	50 Ω
VSWR	1.25:1 max across 90 GHz bandwidth

### Environmental:

Temperature	-55 to +165 °C
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### DESIGN AND TEST ASSISTANCE

Performance is dependent on board type and launch design. Southwest Microwave can provide the following support for optimal results.

- Board layout/launch
- Encrypted HFSS models
- 3D models for mechanical layout

