

Vertical Launch Connectors



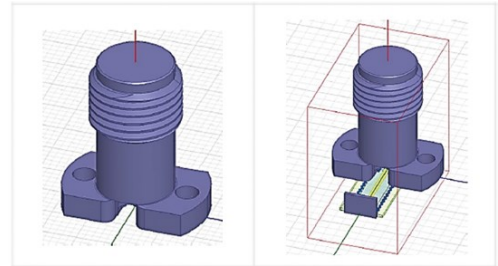
Withwave's **Vertical Launch Connectors** are specially designed for solderless vertical PCB launch on test & measurement board. These connectors have excellent electrical transition performance up to 26.5, 50 GHz, 67 GHz & 110 GHz respectively as well as reduce installation time by eliminating soldering.

- Freq: DC to 26.5, 40, 50, 67 & 110 GHz
- SMA, 2.92 mm, 2.4 mm, 1.85 mm & 1.0 mm
- Excellent Vertical transition
- Easy & Solderless installation on designed substrate

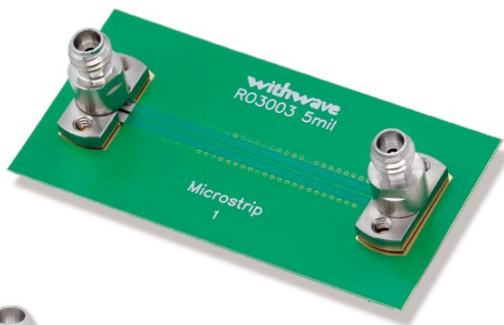
Specification	
VSWR	DC to 26.5 GHz.....1.30:1 Max
	to 40.0 GHz.....1.30:1 Max
	to 50.0 GHz.....1.30:1 Max
	to 67.0 GHz.....1.60:1 Max
	to 110.0 GHz.....1.60:1 Max
Temperature	- 55 to +125 °C

Design Assistance

- 3D Model for Mechanical Layout (STEP file)
- ANSYS HFSS models (version 17.0 or newer) for 3D EM Simulation

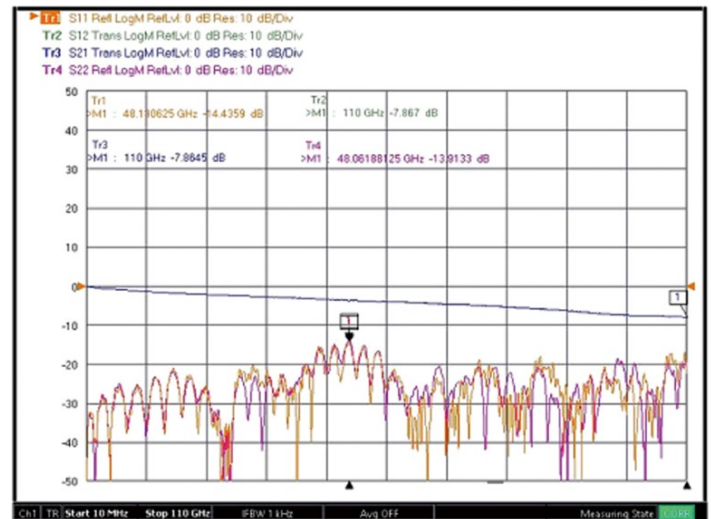


Vertical Launch 1.0 mm (DC to 110 GHz)

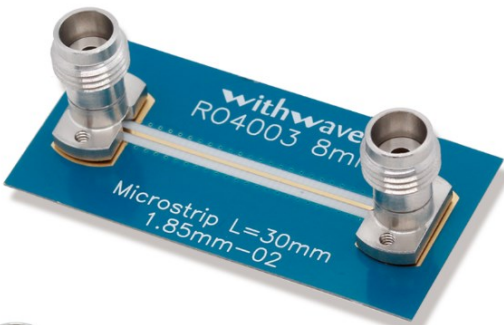


Microstrip type
VC00FS002

Substrate	RO3003(5 mil)
Trace length	30.15 mm

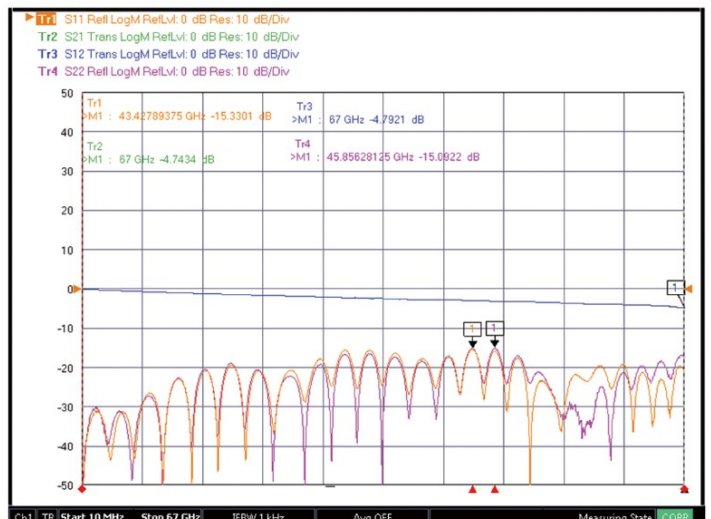


Vertical Launch 1.85 mm (DC to 67 GHz)

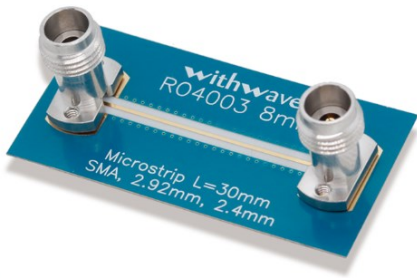


Microstrip type
VC01FS002

Substrate	RO4003(8 mil)
Trace length	30 mm



Vertical Launch 2.4 mm (DC to 50 GHz)



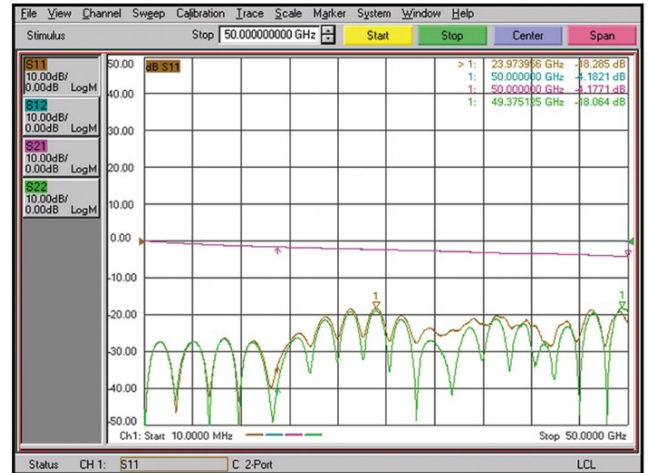
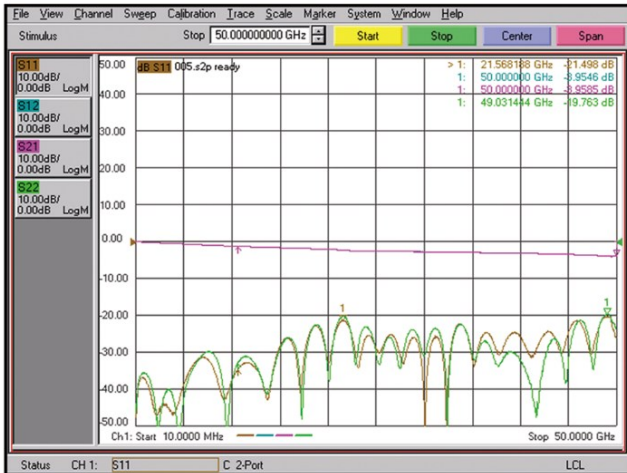
Microstrip type
VC02FS002

Substrate	RO4003(8 mil)
Trace length	30 mm

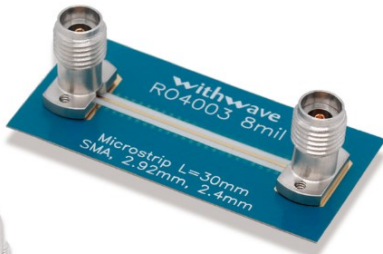


Stripline type
VC02FS001

Substrate	RO4003(8 mil)
Trace length	30 mm



Vertical Launch 2.92 mm (DC to 40 GHz)



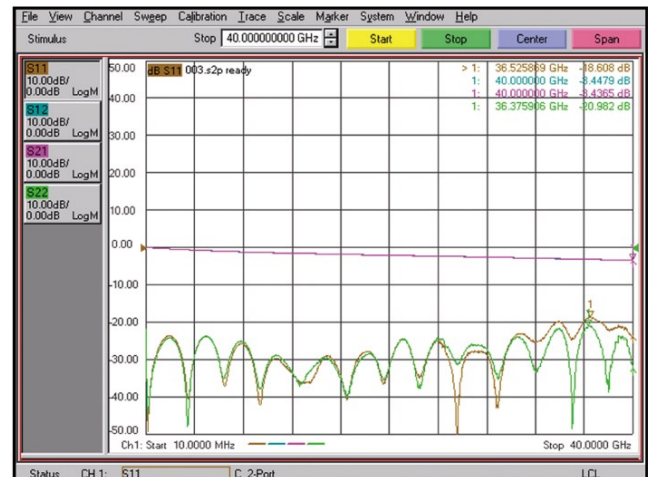
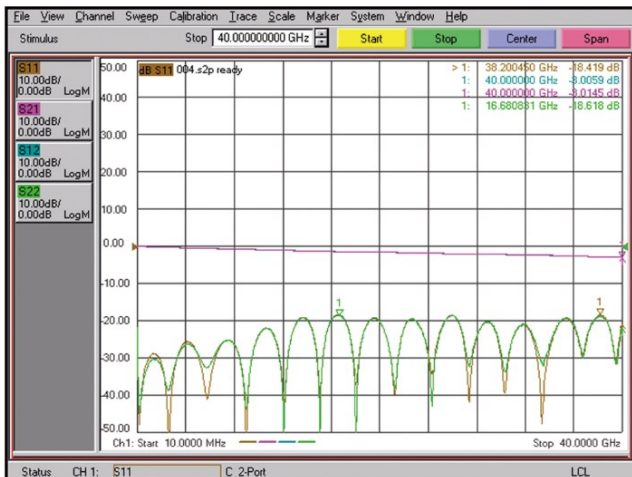
Microstrip type
VC03FS002

Substrate	RO4003(8 mil)
Trace length	30 mm

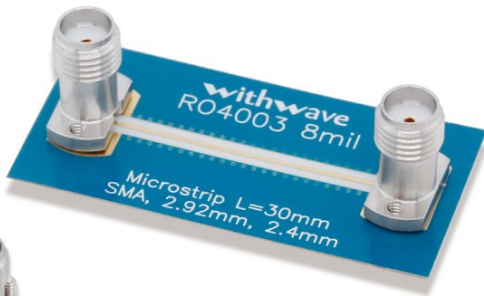


Stripline type
VC03FS001

Substrate	RO4003(8 mil)
Trace length	30 mm

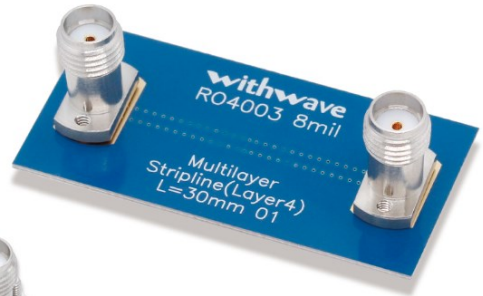


Vertical Launch SMA (DC to 26.5 GHz)



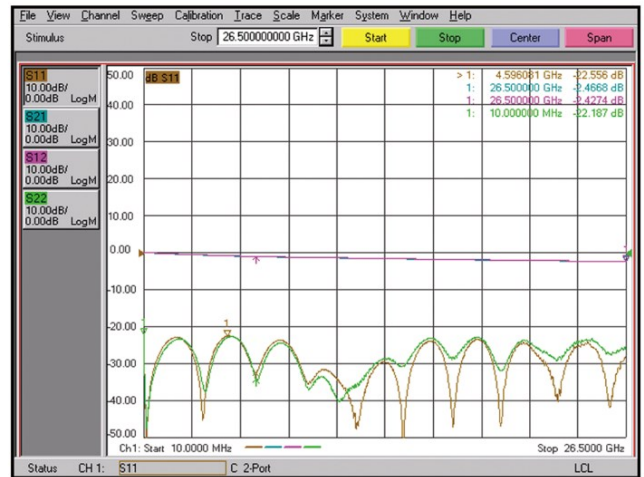
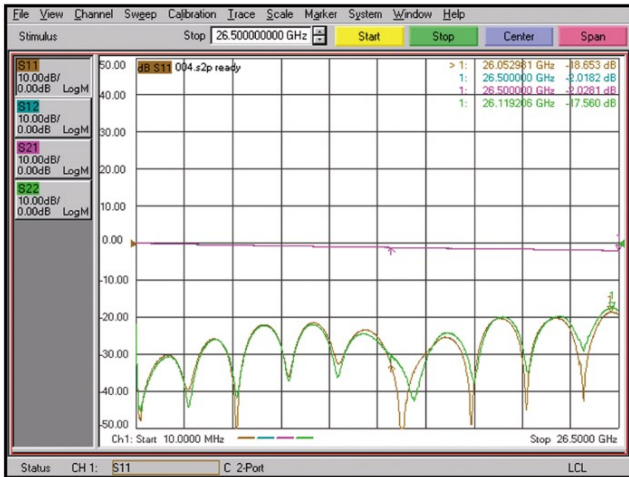
Microstrip type
VC06FS002

Substrate	RO4003(8 mil)
Trace length	30 mm



Stripline type
VC06FS001

Substrate	RO4003(8 mil)
Trace length	30 mm



Installation Procedure

STEP 1	STEP 2
<p>Launch vertical connector on the position of substrate.</p>	<p>Ensure Connector Body should be tighten against the substrate using two screws while ensuring center pin should be centered on the trace.</p>
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Microstrip Line</p> <p>M1.6 Screw Bolting</p> </div> <div style="text-align: center;"> <p>Stripline</p> <p>M1.6 Screw Bolting</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Microstrip Line</p> </div> <div style="text-align: center;"> <p>Stripline</p> </div> </div>

