Part No. WCON-29SEPXX-01

40GHz 180° 2.92mm(F) End Launch, PCB Connector/Gold



Features:

- High repeatability
- Low VSWR

RoHS Compliant

Electrical Specification	
Frequency	DC-40GHz
VSWR	DC-30GHz:1.2:1(Max.) 30-40GHz:1.4:1(Max.)
Impedance	50 Ohm
Connector Type	2.92mm Female

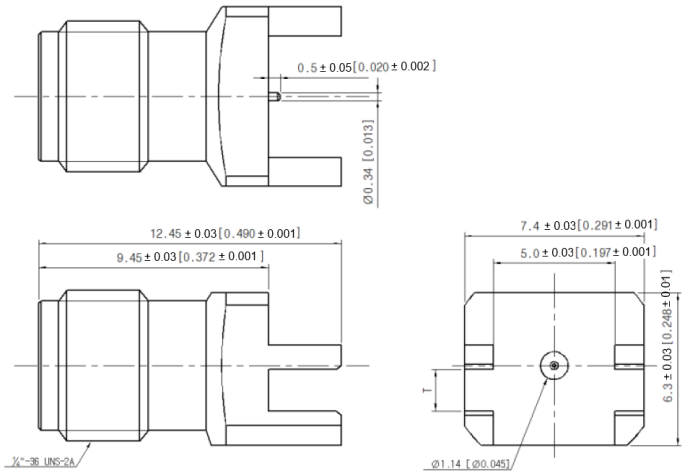
Mechanical Specification	
Durability	500Cycles

Material Specification	
Body	Gold Plated Brass
Center Contact	Gold Plated Beryllium Copper
Insulator	PTFE

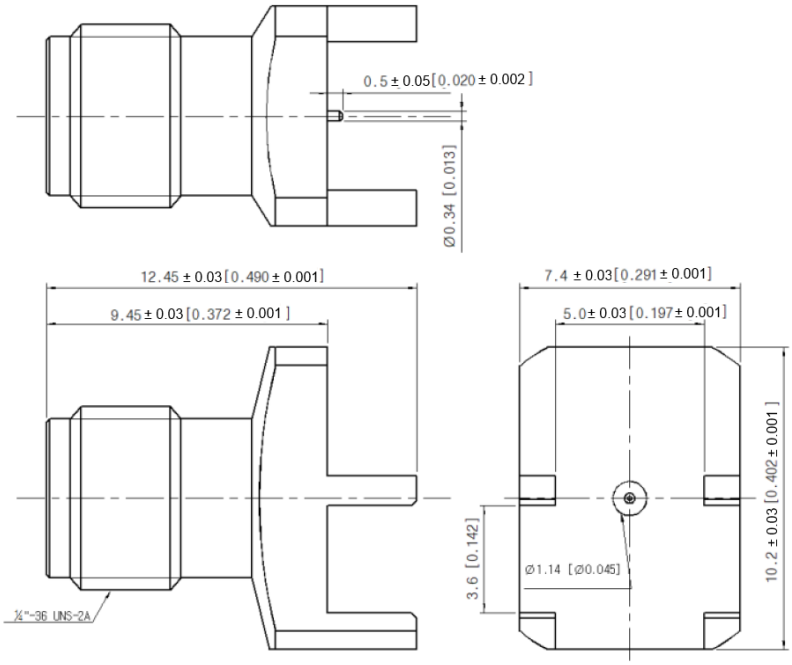
Environmental Specification	
Operating Temperature	-65~+165℃

Outline

Unit:mm(inch)



Part No.	Board Clearance
WCON-29SEP0.6-01	0.6 mm
WCON-29SEP0.8-01	0.8 mm
WCON-29SEP1.0-01	1.0 mm
WCON-29SEP1.1-01	1.1 mm
WCON-29SEP1.2-01	1.2 mm
WCON-29SEP1.5-01	1.5 mm
WCON-29SEP1.6-01	1.6 mm
WCON-29SEP1.7-01	1.7 mm
WCON-29SEP2.1-01	2.1 mm
WCON-29SEP2.3-01	2.3 mm



Part No.	Board Clearance
WCON-29SEP3.6-01	3.6 mm

Installation Procedure

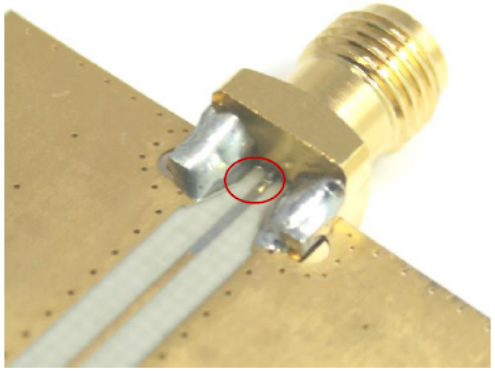
STEP 1 :

Insert Board Edge 2.92 mm connector at the edge position of substrate.



STEP 2 :

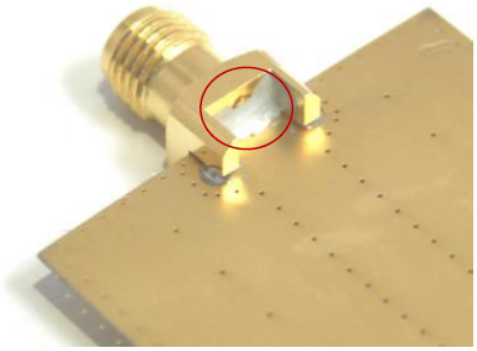
Make sure contact pin is aligned with the center of the signal trace. and, solder contact pin on the signal trace and two legs on the ground plane while ensuring the connector is held in the correct position.





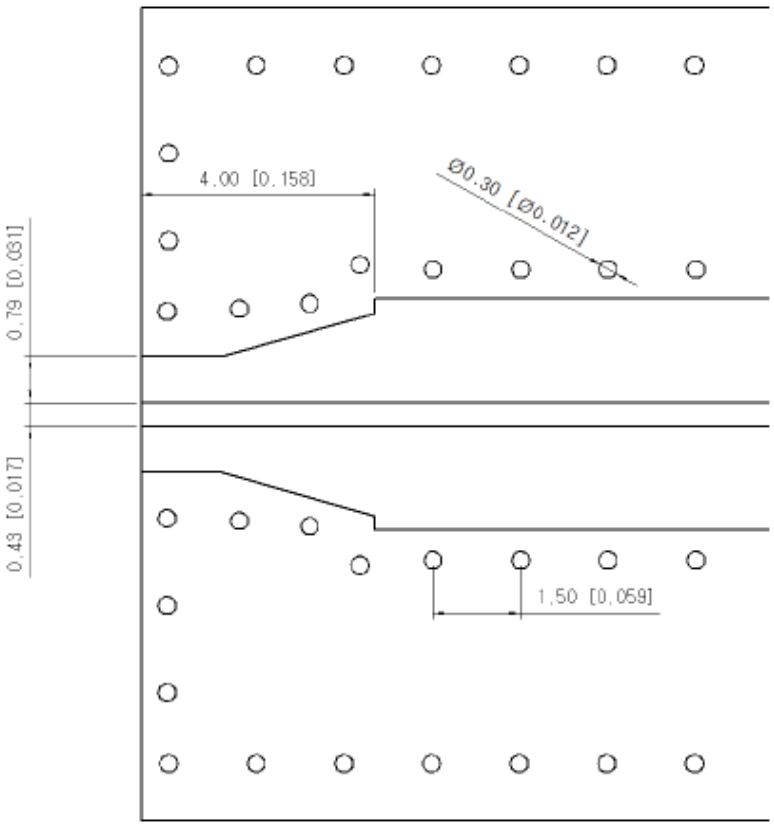
STEP 3 :

Solder two legs and connector body on the back side of substrate (ground plane) to improve RF performance. Remove any excess solder and clean all flux and other residues from trace area.

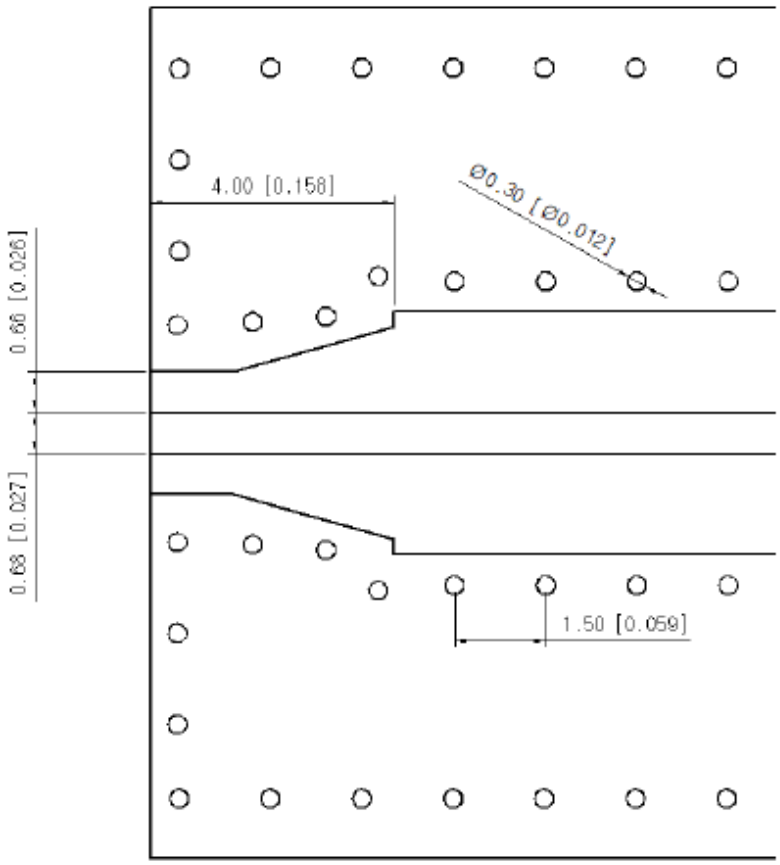


Recommended Patten

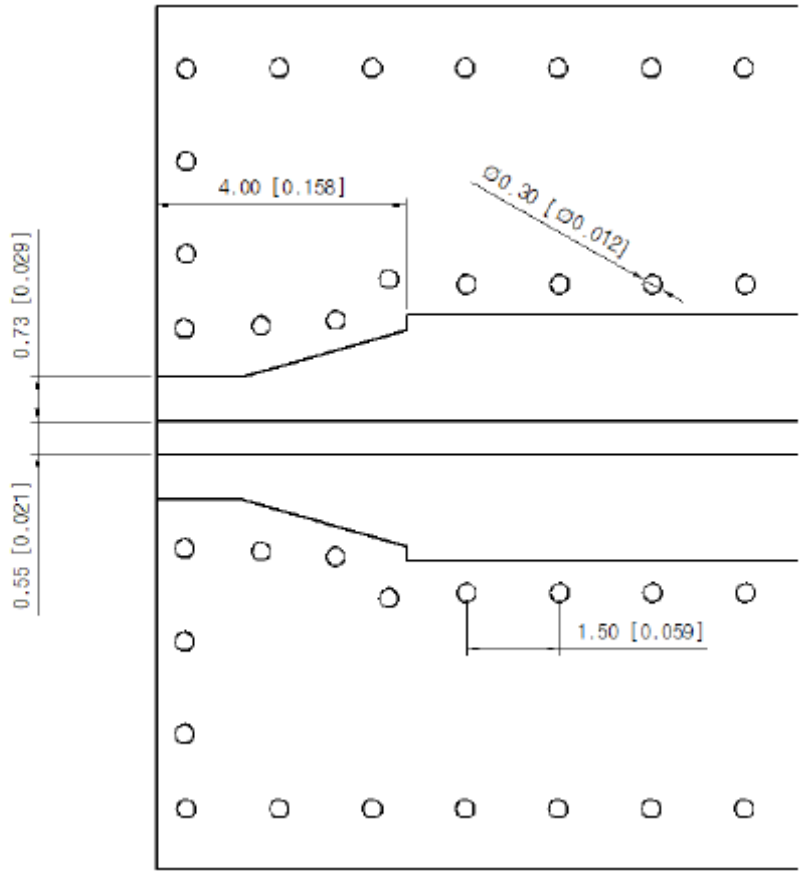
RO4003C 8 mil
Microstrip type



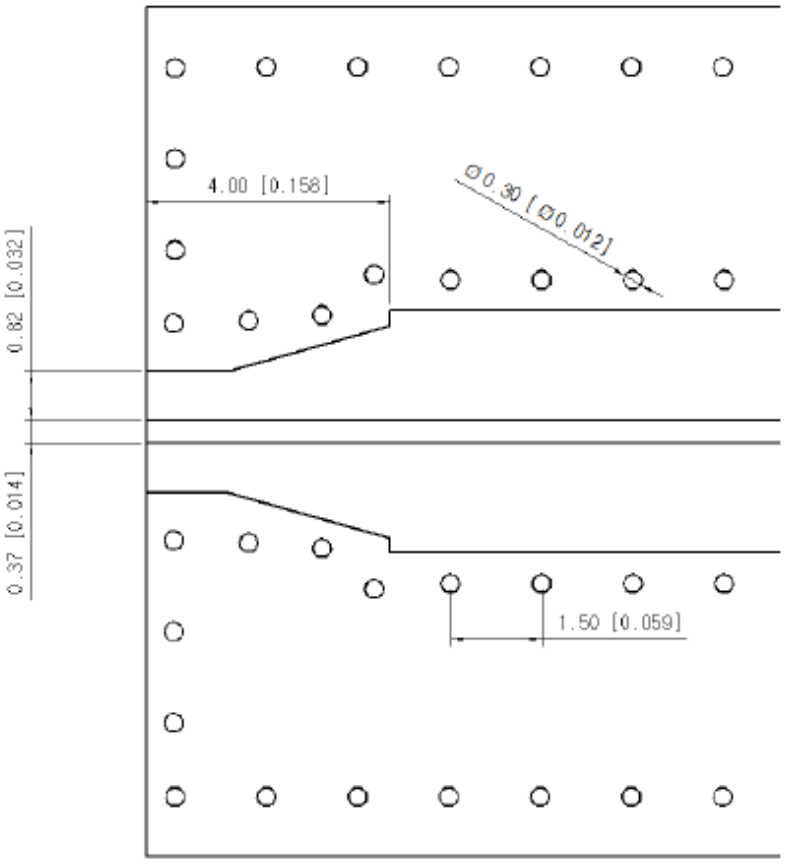
RO4003C 12 mil
Microstrip type



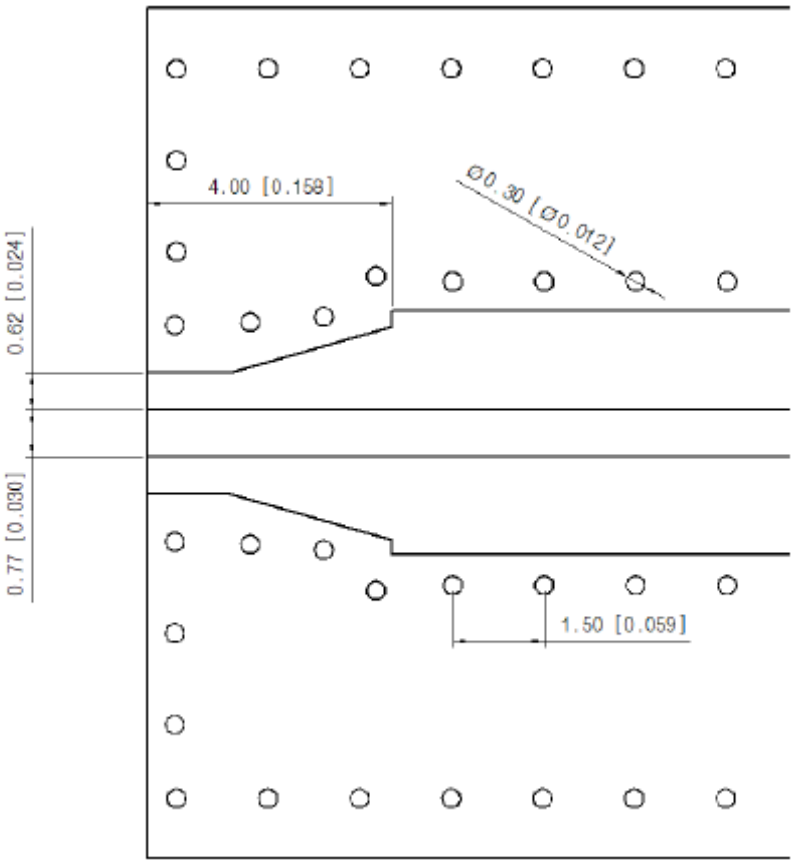
RO4350B 10 mil
Microstrip type



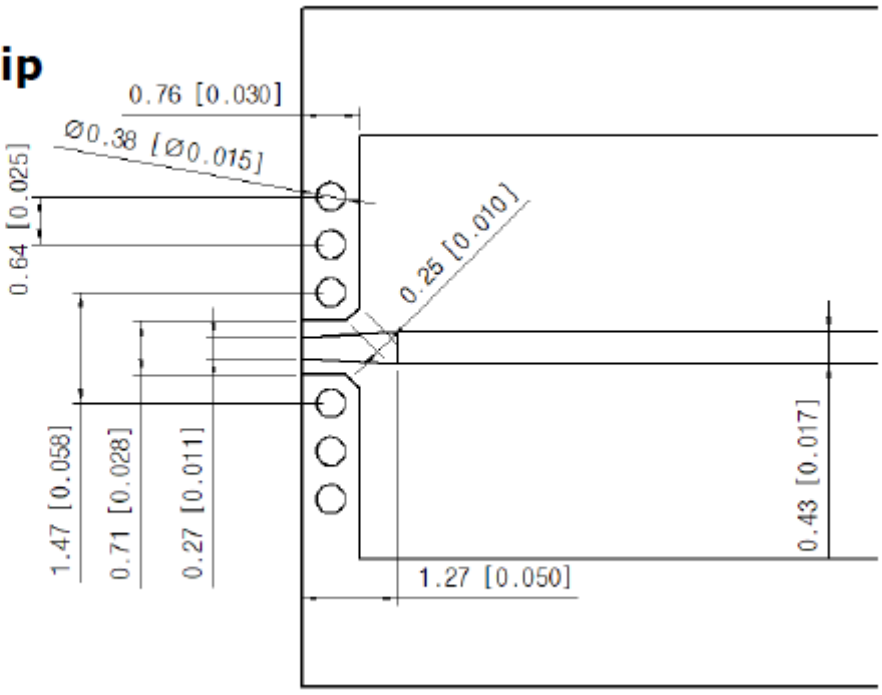
Du5880 5 mil
Microstrip type



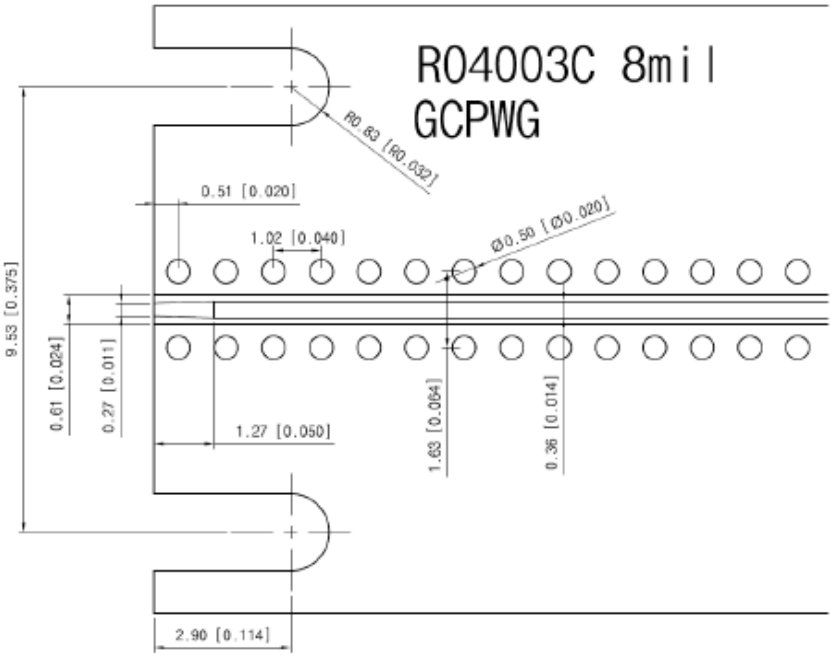
Du5880 10 mil
Microstrip type



RO4003C 8 mil
Top Ground Microstrip



RO4003C 8 mil GCPWG

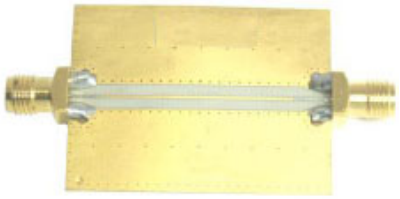


Test Data

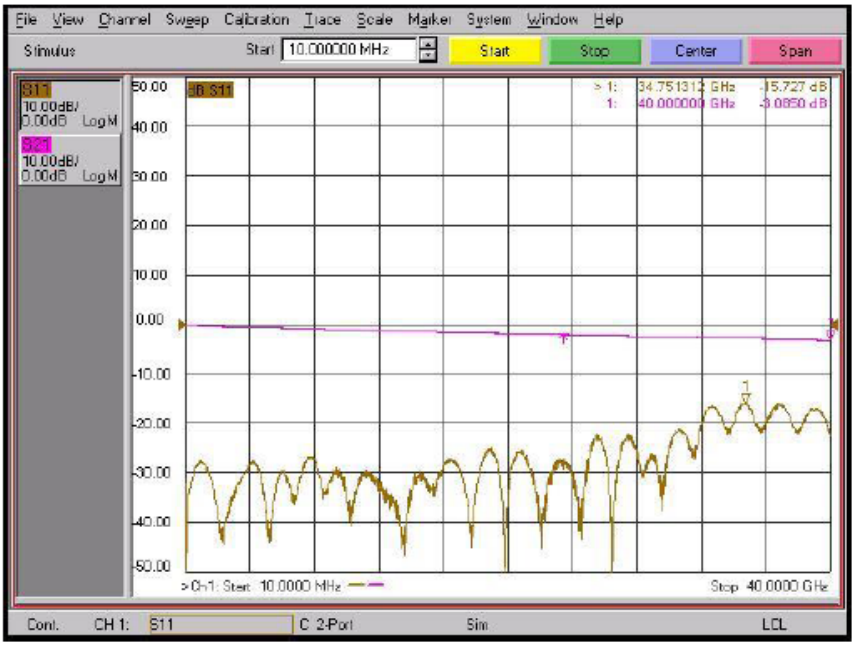
Part No. WCON-29SEP0.6-01

Microstrip type

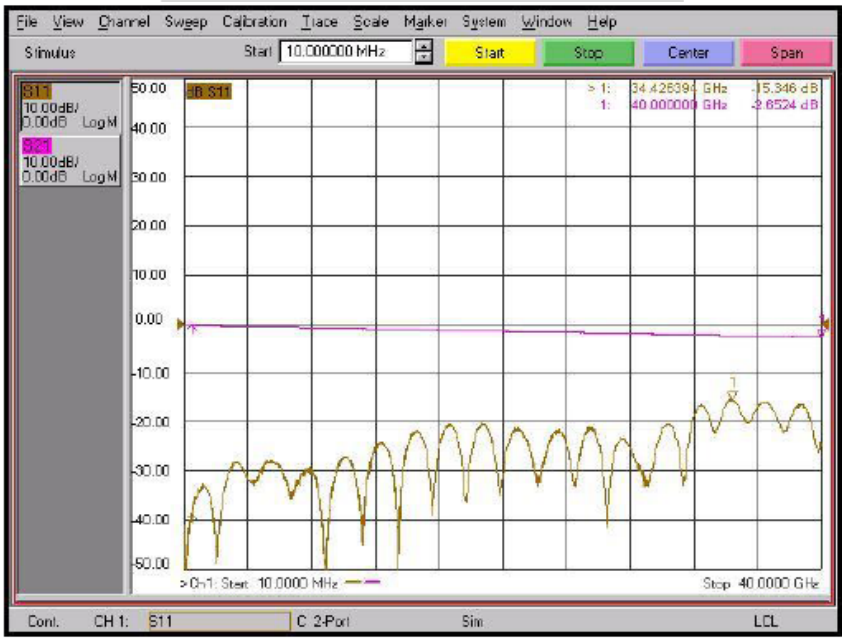
Freq.:10MHz to 40GHz



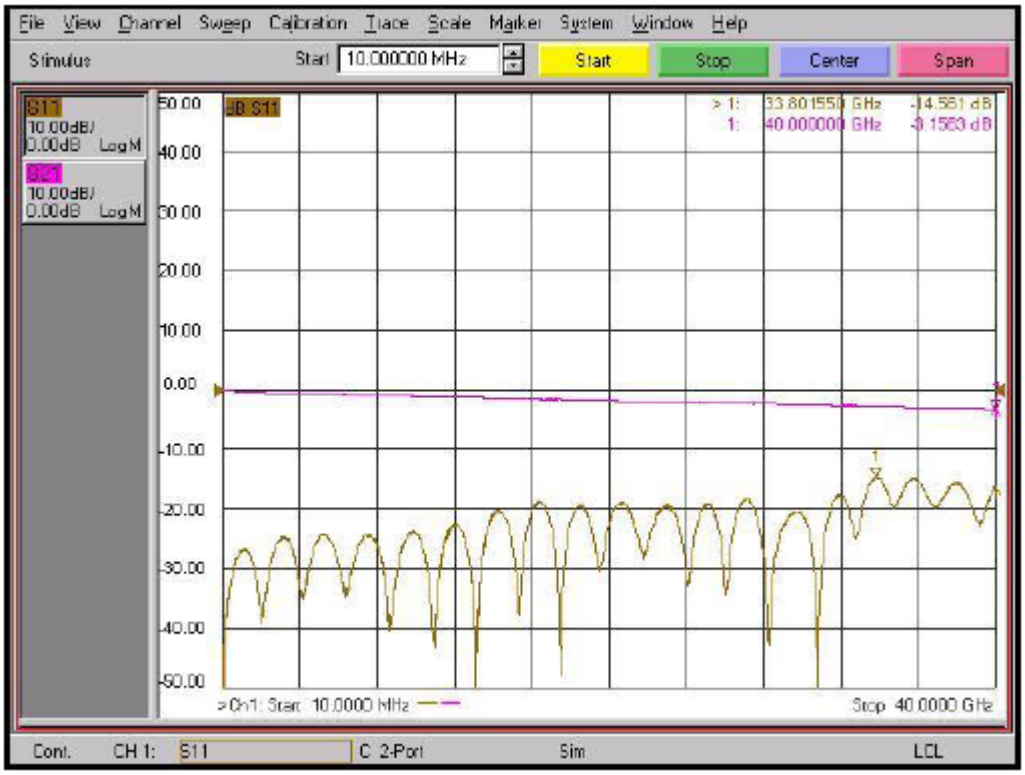
Substrate : RO4003C (8 mil)



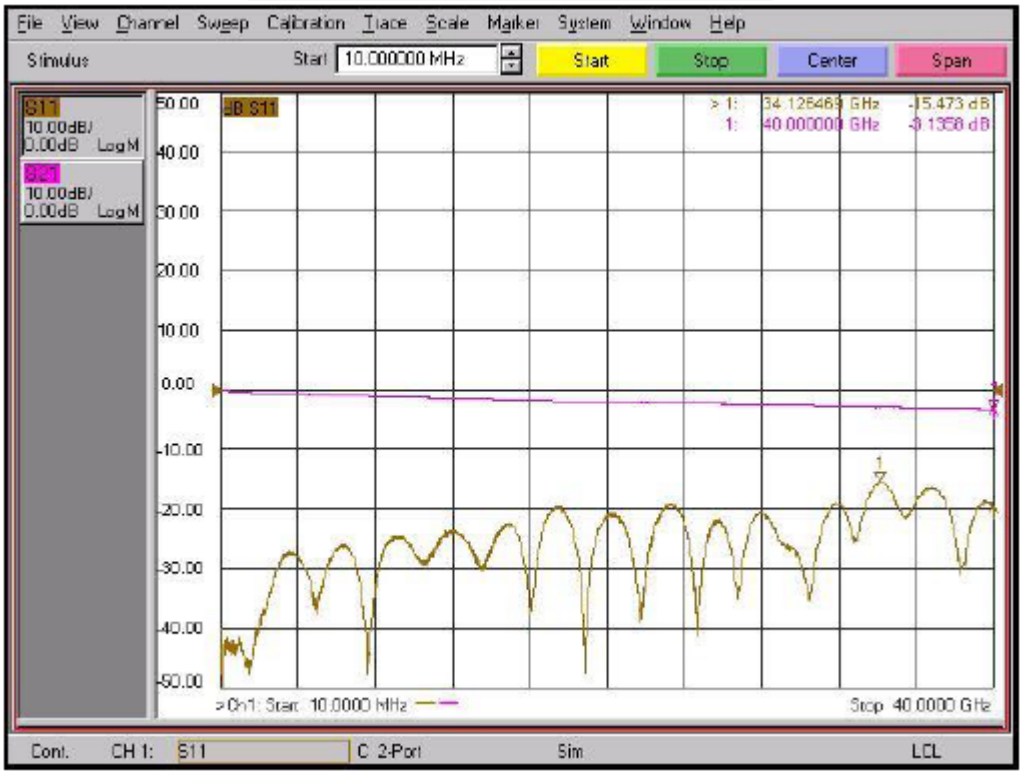
Substrate : RO4003C (12 mil)



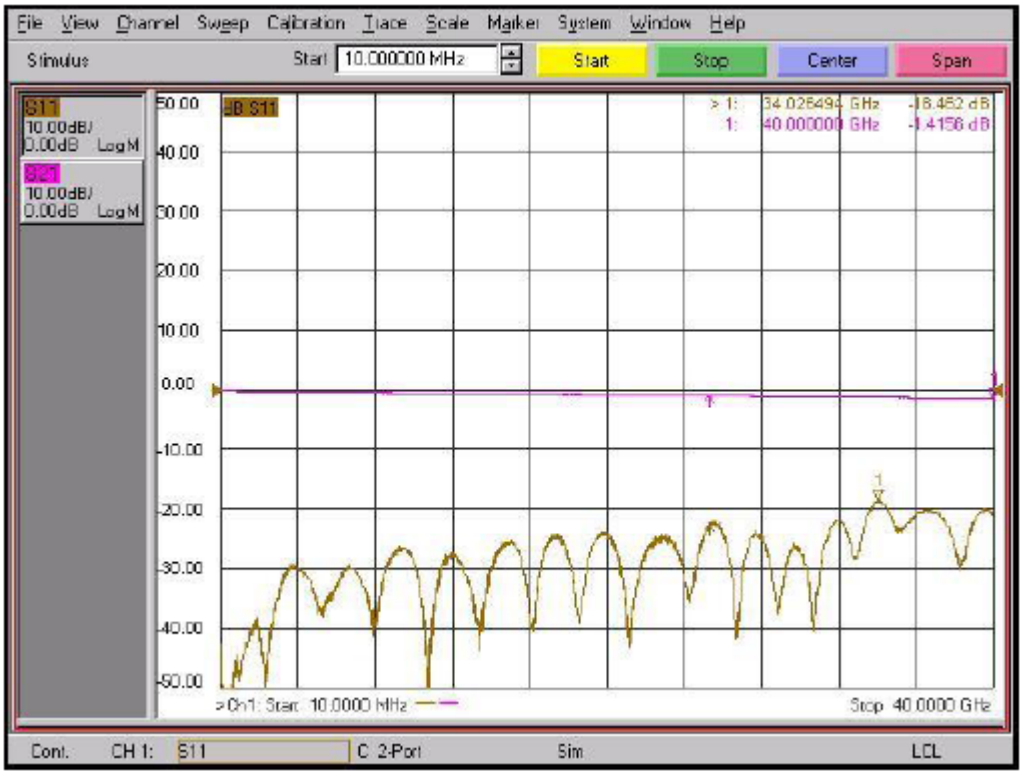
Substrate : RO4350B (10 mil)



Substrate : Du5880 (5 mil)

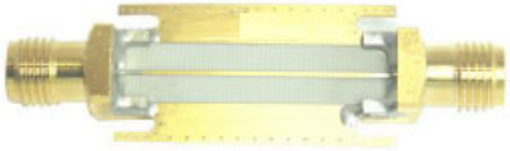


Substrate : Du5880 (10 mil)

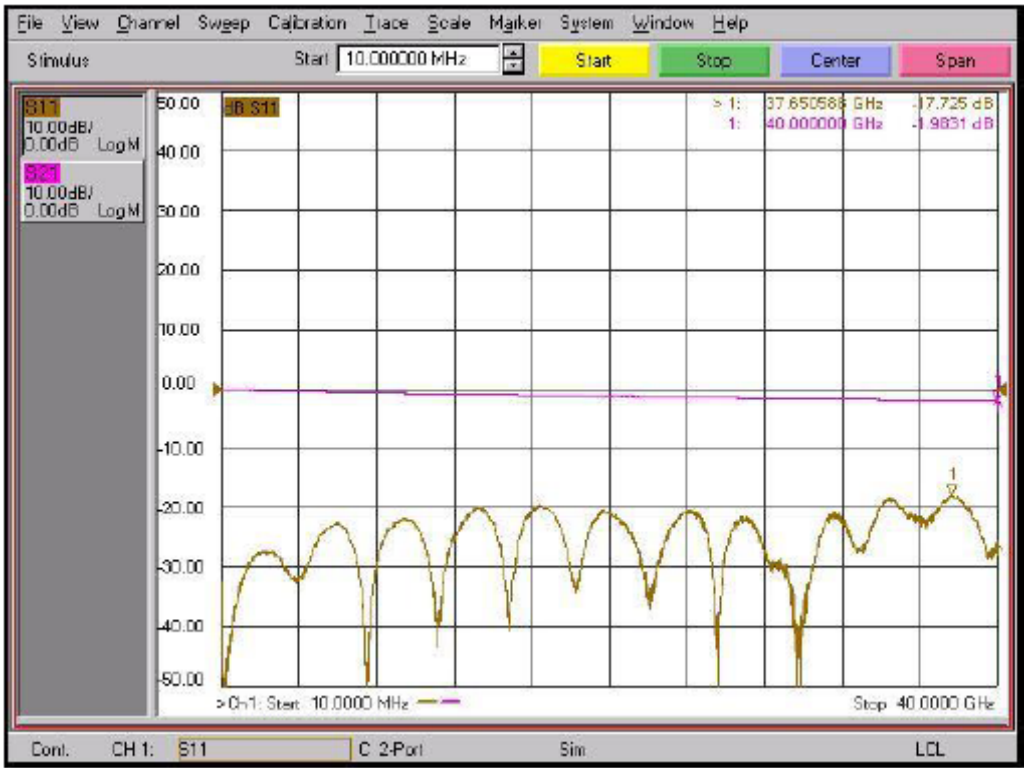


Top Ground Microstrip type

Freq.:10MHz to 40GHz

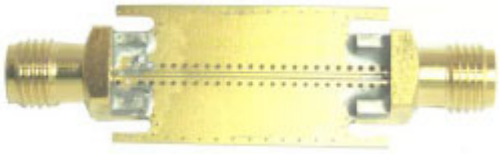


Substrate : RO4003C (8 mil)



GCPWG type

Freq.:10MHz to 40GHz



Substrate : RO4003C (8 mil)

