COAXIAL CONNECTOR
Short Profile
CCON-2.92F-40-ED-SS

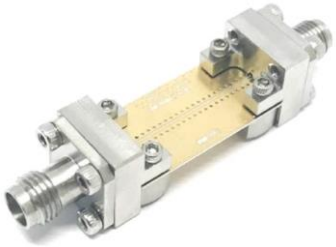
Supported by TACTRON ELEKTRONIK GmbH & Co. KG

Specifications

Electrical	
Nominal Impedance	50Ω
Frequency Range	DC to 40GHz
VSWR	1.40:1 max.

Mechanical	
Connector Type	2.92mm-female
Construction Form	Straight / Edge Mount / Screwed (Short Profile)
Board Thickness	variable
Material Body	Stainless Steel
Material Center Contact	Beryllium Copper, Gold Plated

Model Number	**CCON-2.92F-40-ED-SS**

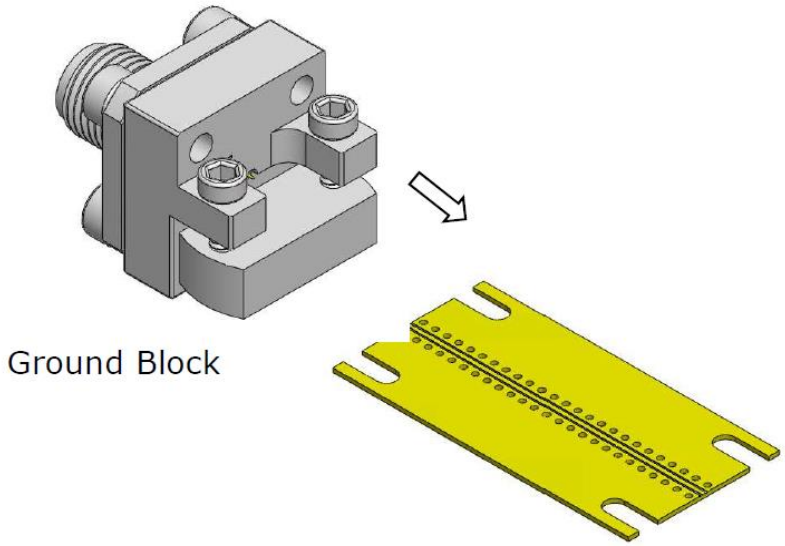


- GCPWG, Top Ground Microstrip structure
- easy installation on designed substrate
- no soldering required

Installation Procedure

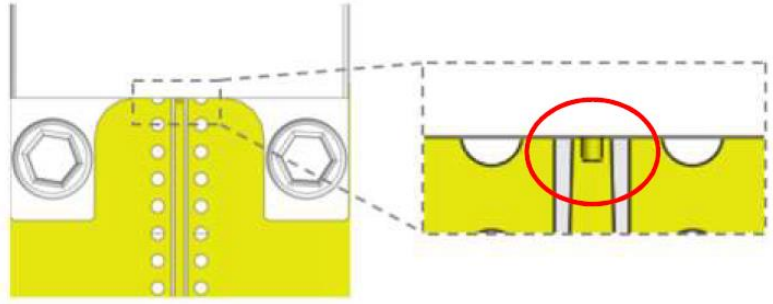
Step 1

Insert end launch connector (including block & screws) in the edge position of substrate



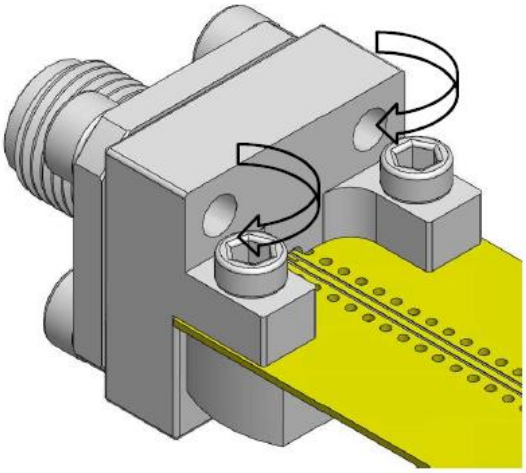
Step 2

Ensure the pin is centered on the trace



Step 3

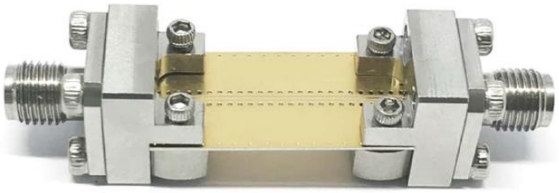
Ensure the block is tight against the substrate



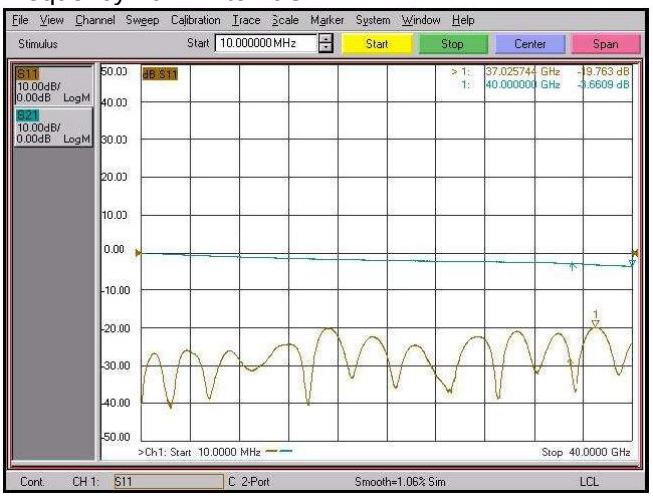
Test Results (with Substrate length 1 inch (25.4mm))

GCPWG Structure

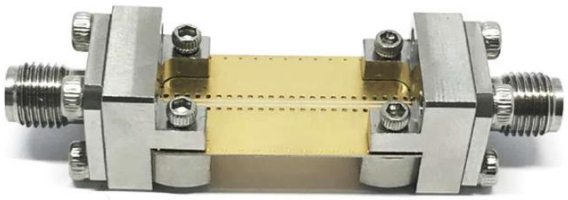
RO4003C (8mil)



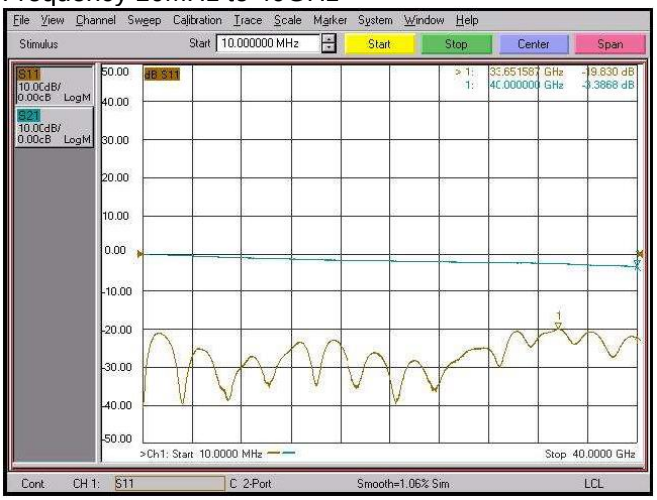
Frequency 10MHz to 40GHz



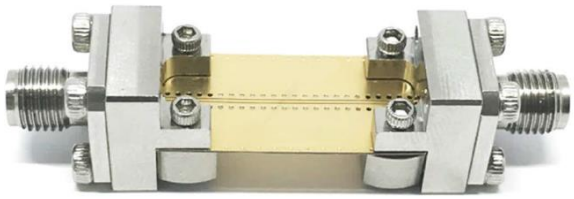
RO4350B (10mil)



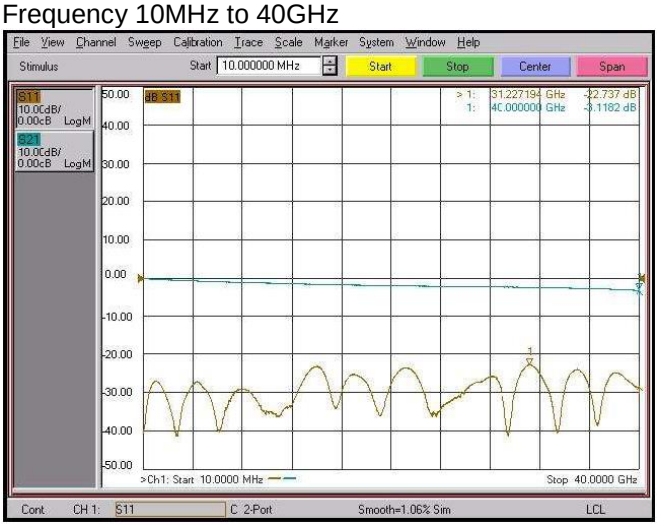
Frequency 10MHz to 40GHz



Duroid 5880 (5mil)

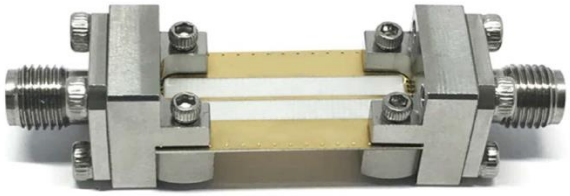


Frequency 10MHz to 40GHz

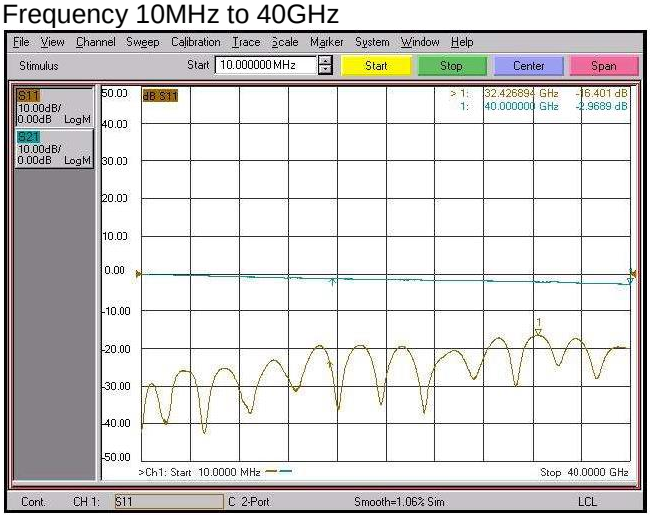


Top Ground Microstrip

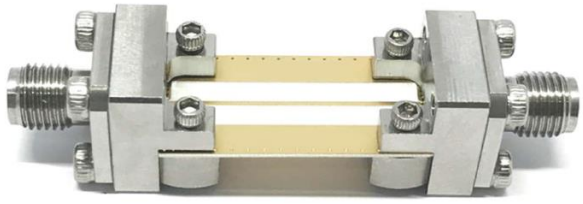
RO4003C (8mil)



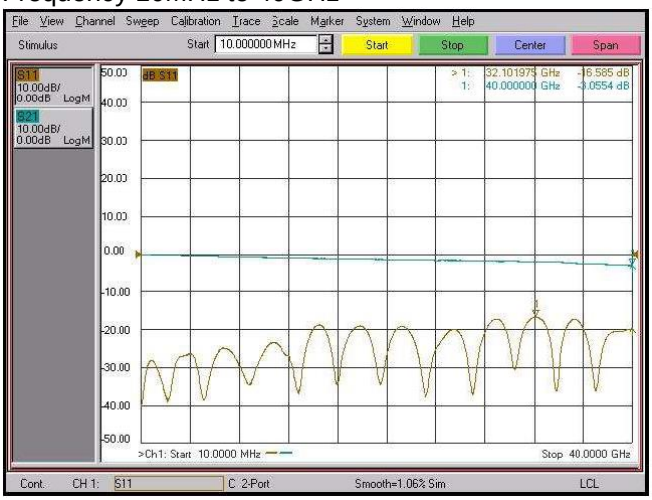
Frequency 10MHz to 40GHz



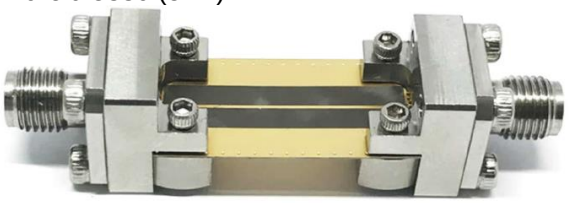
RO4350B (10mil)



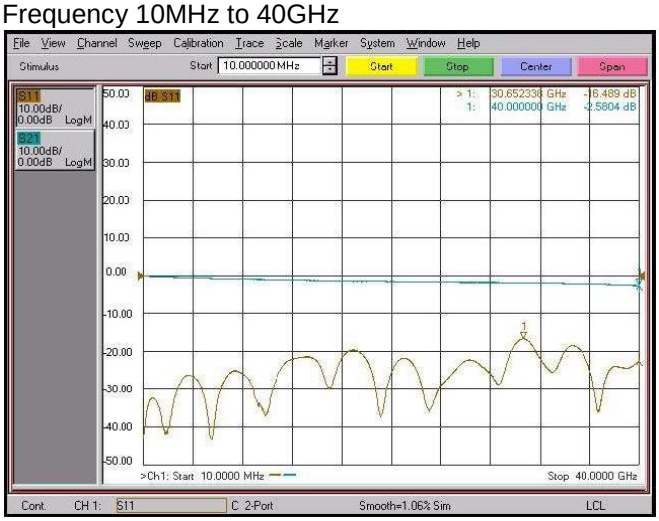
Frequency 10MHz to 40GHz



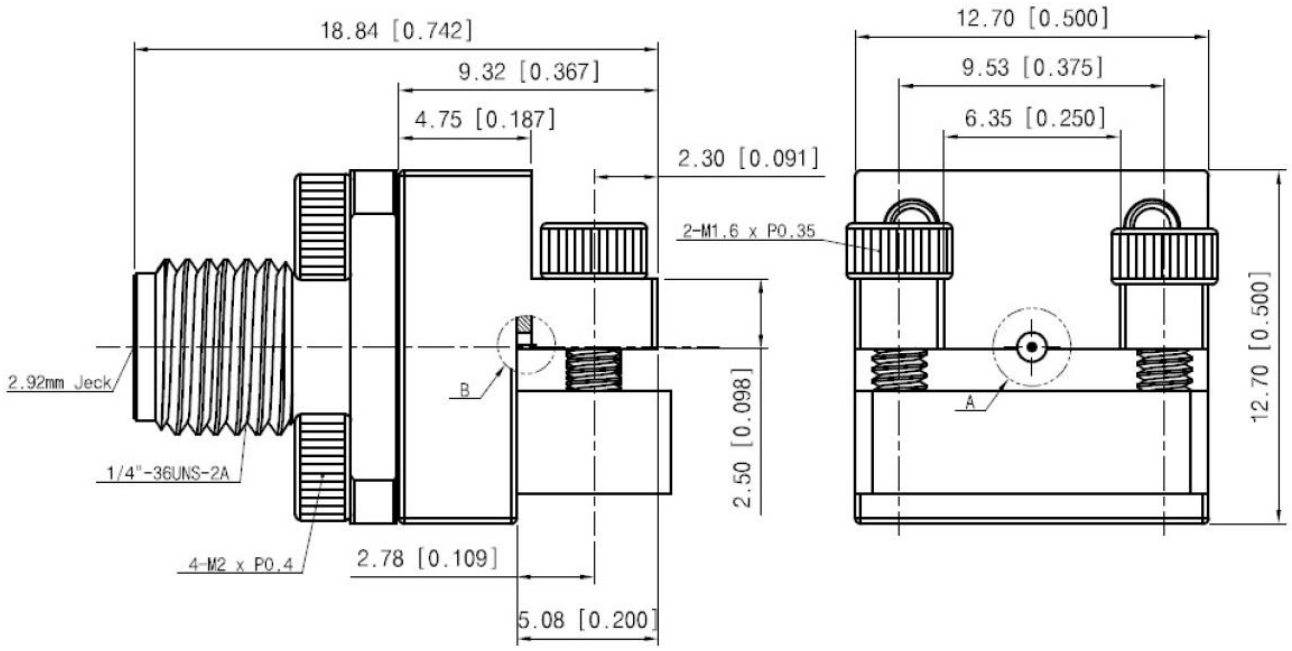
Duroid 5880 (5mil)

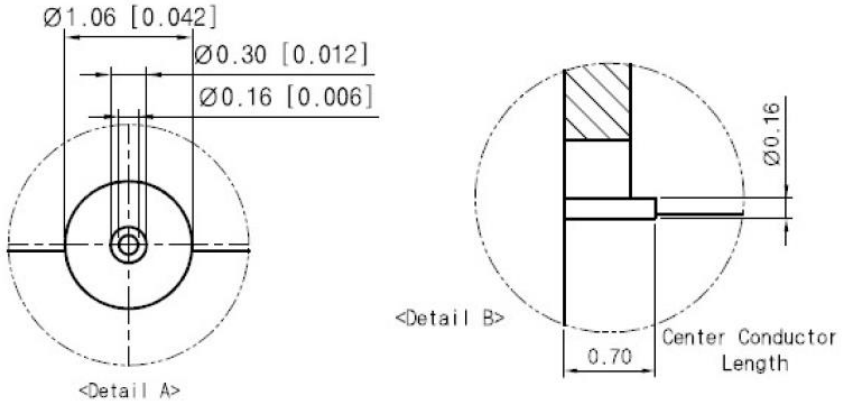


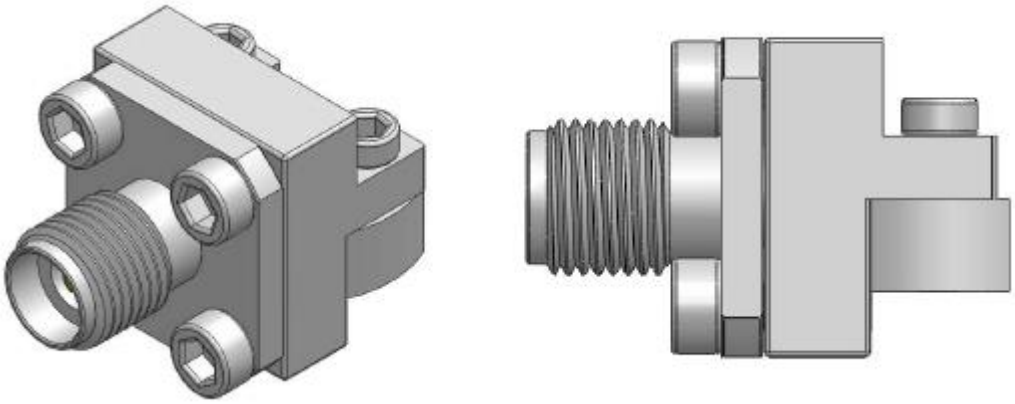
Frequency 10MHz to 40GHz



Outline



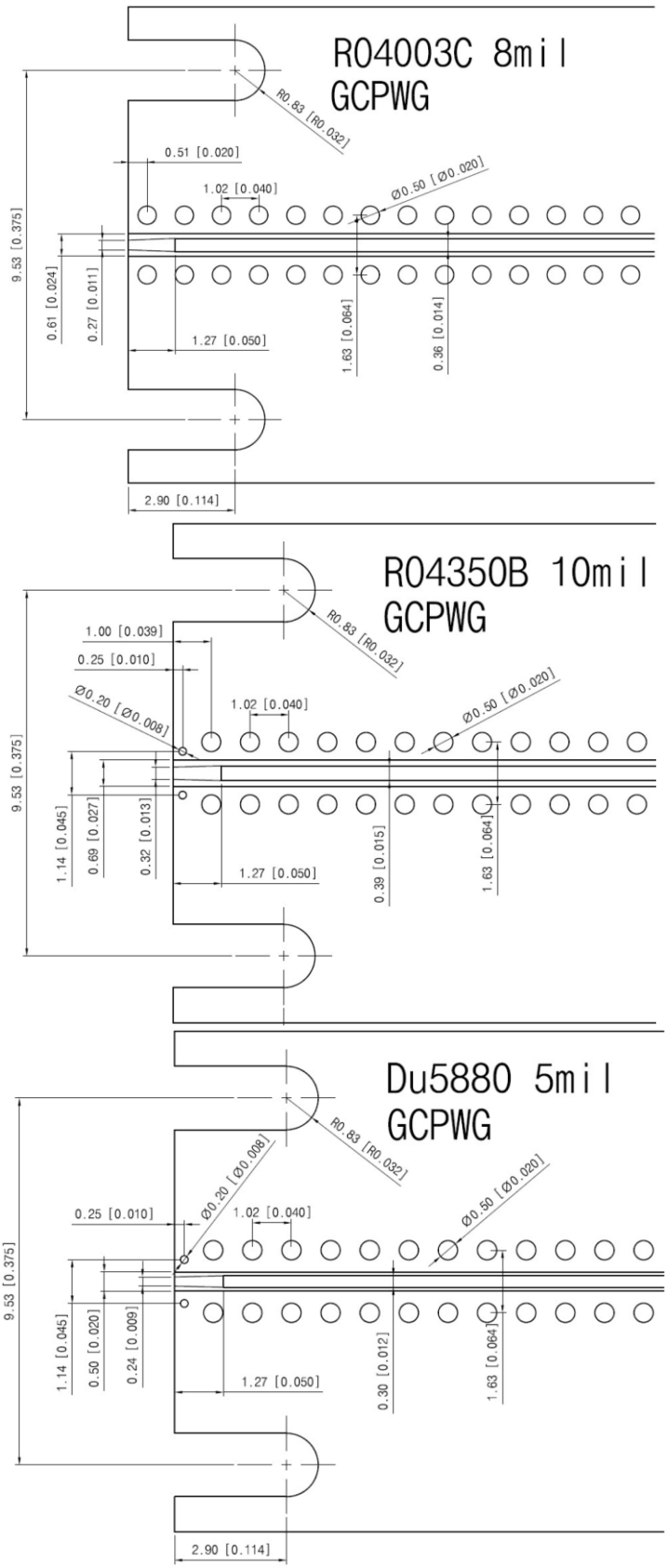


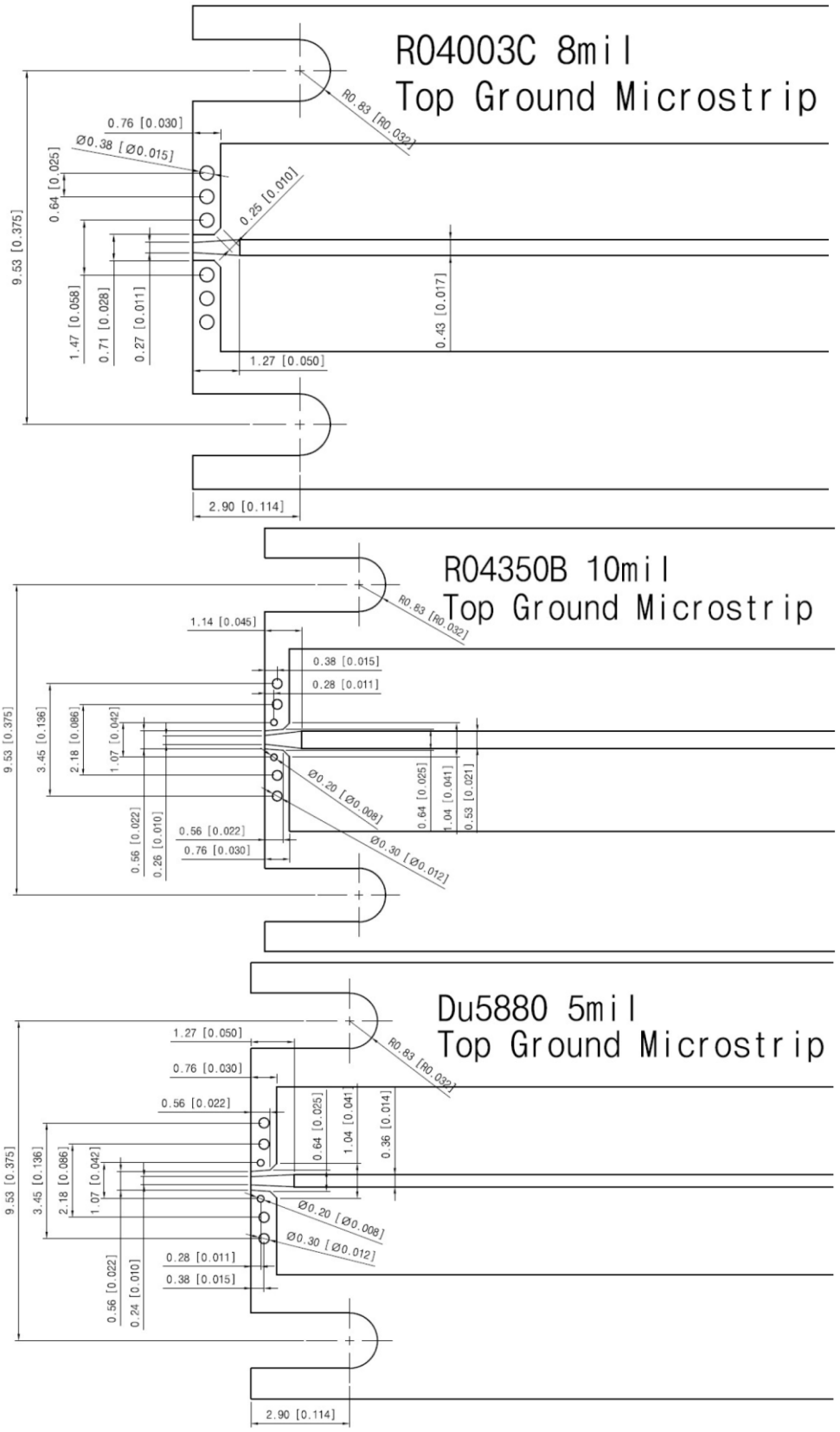


Notes:

Dimensions in mm [inches]
Dimensions Tolerance ±2%
All specifications are subject to change without prior notice.
RoHS Compliant

PCB Layout


RO4003C 8mil
GCPWG
R0.83 [R0.032]
0.51 [0.020]
1.02 [0.040]
Ø0.50 [Ø0.020]
9.53 [0.375]
0.61 [0.024]
0.27 [0.011]
1.27 [0.050]
1.63 [0.064]
0.36 [0.014]
2.90 [0.114]
RO4350B 10mil
GCPWG
R0.83 [R0.032]
1.00 [0.039]
0.25 [0.010]
Ø0.20 [Ø0.008]
1.02 [0.040]
Ø0.50 [Ø0.020]
9.53 [0.375]
1.14 [0.045]
0.69 [0.027]
0.32 [0.013]
1.27 [0.050]
0.39 [0.015]
1.63 [0.064]
Du5880 5mil
GCPWG
R0.83 [R0.032]
Ø0.20 [Ø0.008]
0.25 [0.010]
1.02 [0.040]
Ø0.50 [Ø0.020]
9.53 [0.375]
1.14 [0.045]
0.50 [0.020]
0.24 [0.009]
1.27 [0.050]
0.30 [0.012]
1.63 [0.064]
2.90 [0.114]


R04003C 8mil
Top Ground Microstrip
R0.83 [R0.032]
0.76 [0.030]
Ø0.38 [Ø0.015]
0.64 [0.025]
0.25 [0.010]
9.53 [0.375]
1.47 [0.058]
0.71 [0.028]
0.27 [0.011]
0.43 [0.017]
1.27 [0.050]
2.90 [0.114]
R04350B 10mil
Top Ground Microstrip
R0.83 [R0.032]
1.14 [0.045]
0.38 [0.015]
0.28 [0.011]
9.53 [0.375]
3.45 [0.136]
2.18 [0.086]
1.07 [0.042]
Ø0.20 [Ø0.008]
0.64 [0.025]
1.04 [0.041]
0.53 [0.021]
0.56 [0.022]
0.26 [0.010]
0.56 [0.022]
0.76 [0.030]
Ø0.30 [Ø0.012]
Du5880 5mil
Top Ground Microstrip
R0.83 [R0.032]
1.27 [0.050]
0.76 [0.030]
0.56 [0.022]
0.64 [0.025]
1.04 [0.041]
0.36 [0.014]
9.53 [0.375]
3.45 [0.136]
2.18 [0.086]
1.07 [0.042]
Ø0.20 [Ø0.008]
Ø0.30 [Ø0.012]
0.28 [0.011]
0.38 [0.015]
0.56 [0.022]
0.24 [0.010]
2.90 [0.114]

Model Number Selection:

CCON-Xx-Z-X

CCON	=	Coaxial Connector			
Xx	=	Connector Type			
Z	=	Frequency			
X	=	Special Option:	90°	=	Right Angle
			P	=	Precision
			B	=	Bulkhead
			2HP	=	2Hole-Panel
			4HP	=	4Hole-Panel
			LPIM	=	Low PIM
			Q	=	Quick Connect
			PCB	=	Through Holes
			EL	=	PCB End Launch
			ED	=	PCB Edge Mount
			SMT	=	SMT

FD = Full Detent / LD = Limited Detent / SB = Smooth Bore