High Performance End Launch Connector
Part No: G01SFB001

GigaLane High Performance End Launch Connectors are designed for 2.4mm (50 GHz), 2.92mm (40 GHz) and SMA (27 GHz) with Low VSWR. It is easily connected to GPCW transmission line and microstrip line.

Specification

Electrical

Frequency	2.4mm DC ~ 50 GHz
Impedance	50 Ω
VSWR	1.57 : 1 (-13dB)
Insulation Resistance	Low Insertion Loss

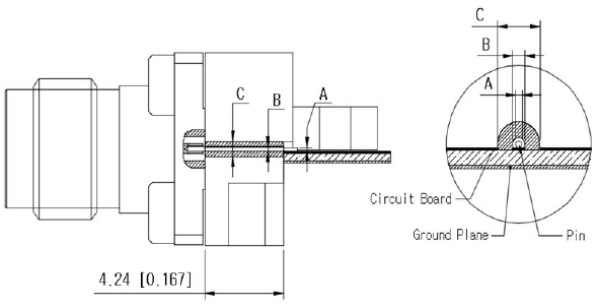
Materials

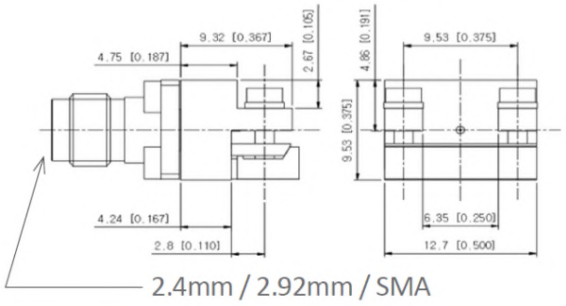
Connector	Body	Stainless Steel (Passivated)
	Center Contract	Beryllium Copper (Gold Plated)
	Insulator	Engineering Plastic
Launch Block	Launched Block	Brass (Ni Plated)
	Pin	Beryllium Copper (Gold Plated)
	Insulator	PTFE

Environmental

Thermal Shock	MIL-STD-202, Method 107, Condition B
Corrosion (salt Spray)	MIL-STD-202, Method 101, Condition B, 5% salt
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition D
Moisture Resistance	MIL-STD-202, Method 106

Drawing





Unit : mm [inch]

Part No.	Pin Diameter		Dielectric Diameter
	A	B	C
G01SFBB001	0.13 [0.005]	0.23 [0.009]	0.76 [0.029]

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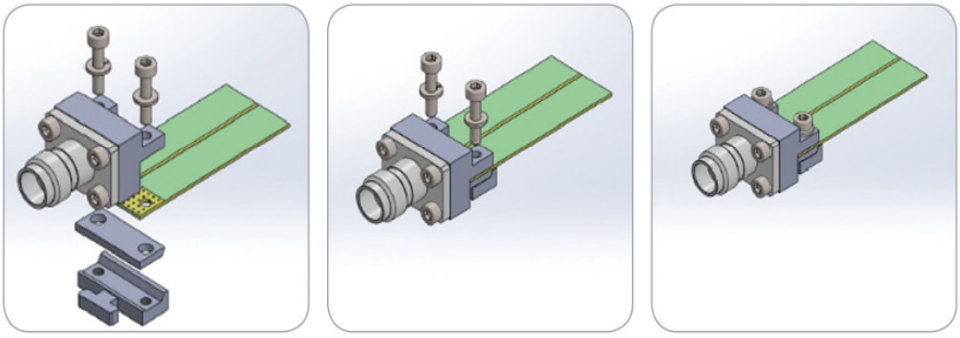
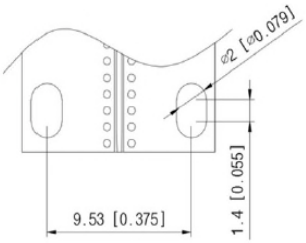
Installation Procedure

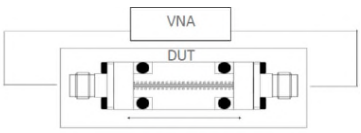
- Mount the end launch connector on the board in the desired position.
- Make sure the launch pin is at the center of the trace.
- Make sure the launched block is tight against board.
- Tighten the M1.6(1.5mm) mounting screws to be tighten unit the connector is secured



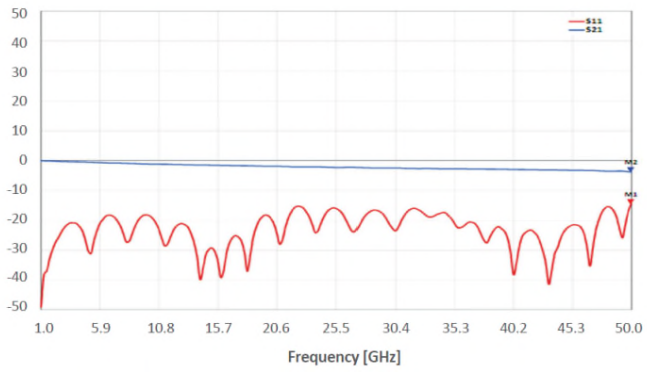


GCPWG Test Result of G01SFB001

* PCB : 8 MIL R4003(0.5oz)

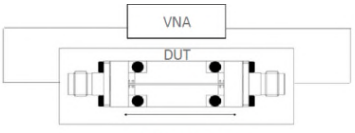


Specification	Test Result
Insertion loss : Min -4.2dB @ 0.1~50GHz	Insertion loss : Min -3.8dB @ 0.1~50GHz
Return loss : Max. -13dB @ 0.1~50GHz	Return loss : Max. -14.5dB @ 0.1~50GHz

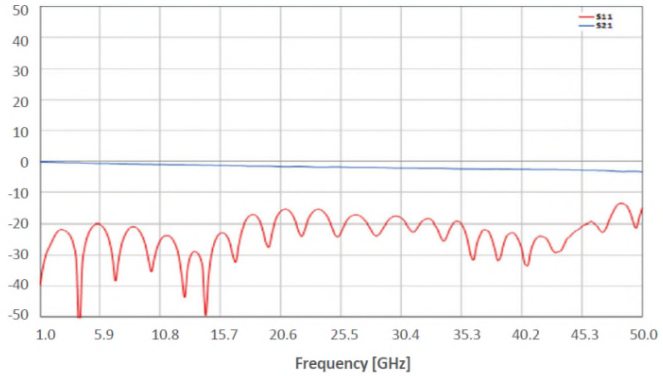


Microstrip with Top Ground Test Result of G01SFB001

* PCB : 8 MIL R4003(0.5oz)



Specification	Test Result
Insertion loss : Min -4.2dB @ 0.1~50GHz	Insertion loss : Min -3.3dB @ 0.1~50GHz
Return loss : Max. -13dB @ 0.1~50GHz	Return loss : Max. -13.5dB @ 0.1~50GHz



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