

High Performance End Launch Connectors

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GigaLane **High Performance End Launch connectors** are designed for applications up to 2.4mm(50 GHz), 2.92mm (40 GHz), SMA(27 GHz) with Low VSWR.

It is suitable for Chip set evaluation/demo boards, test fixtures and board characterization.

► Specification

Electrical

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

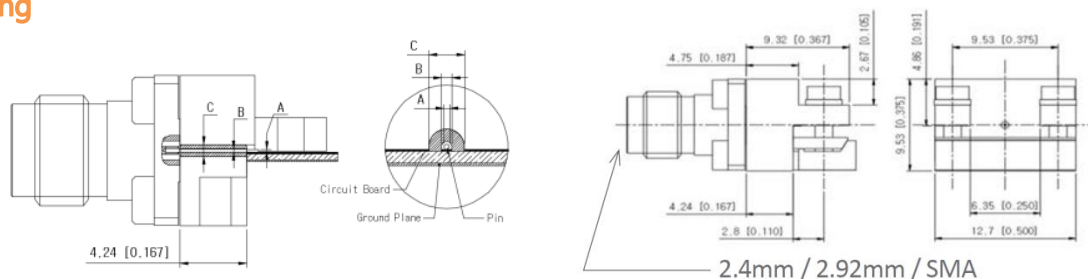
Environmental

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

Materials

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

► Drawing



► Part Number

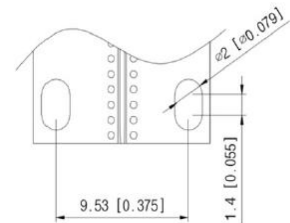
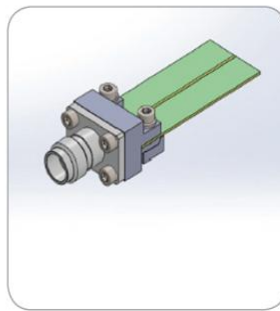
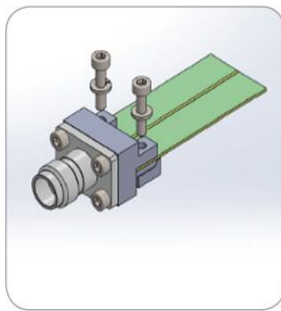
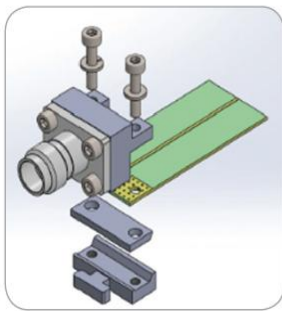
Part No.	Pin Diameter		Dielectric Diameter
	A	B	C
G01SFB001 (2.4mm, 50GHz)	0.13 [0.005]	0.23 [0.009]	0.73 [0.029]
G02SFB002 (2.92mm, 40GHz)	0.18 [0.007]	0.3 [0.011]	0.93 [0.036]
G06SFB102 (SMA, 27GHz)	0.18 [0.007]	0.3 [0.011]	0.93 [0.036]

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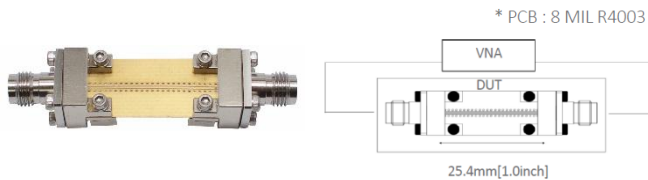
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► Installation Procedure

- 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

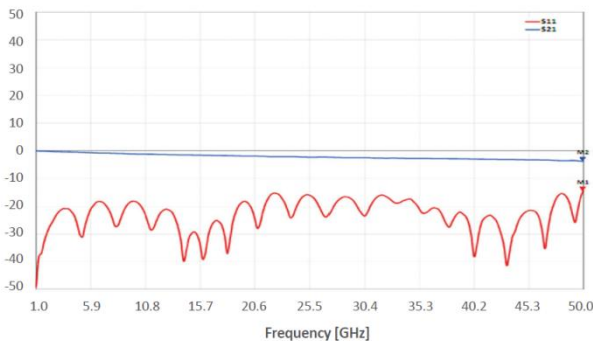


Specification

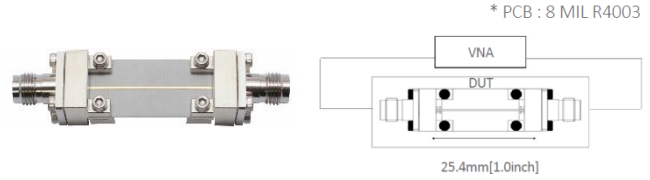
- Insertion Loss : Min. -4.2 dB @ 0.1~50 GHz
- Return Loss : Max. -13 dB @ 0.1~50 GHz

Test Result

- Insertion Loss : Min. -3.824 dB @ 0.1~50 GHz
- Return Loss : Max. -14.543 dB @ 0.1~50 GHz



► Microstrip with Top Ground Test Result of G01SFB001

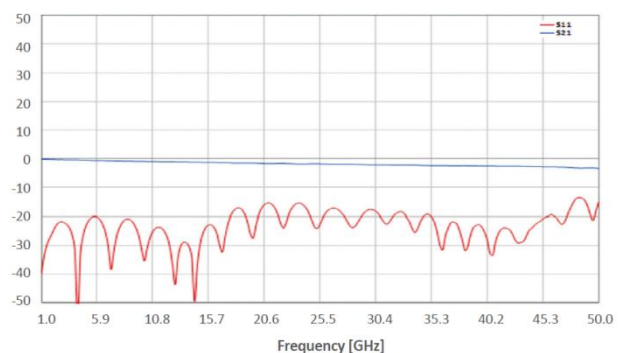


Specification

- Insertion Loss : Min. -4.2 dB @ 0.1~50 GHz
- Return Loss : Max. -13 dB @ 0.1~50 GHz

Test Result

- Insertion Loss : Min. -3.376 dB @ 0.1~50 GHz
- Return Loss : Max. -13.504 dB @ 0.1~50 GHz

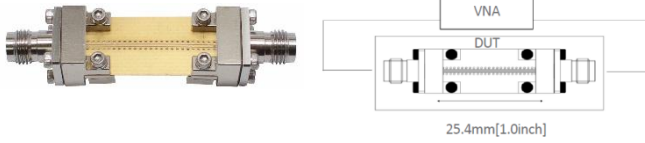


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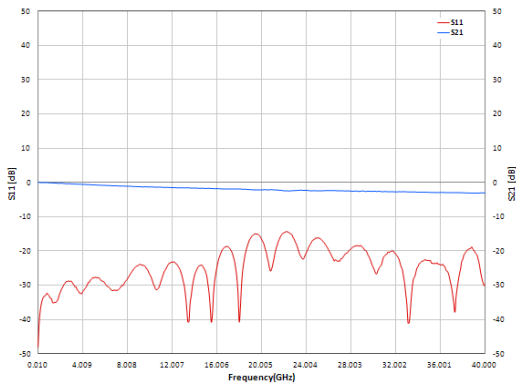
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▶ GCPWG Test Result of G02SFB002

* PCB : 8 MIL R4003

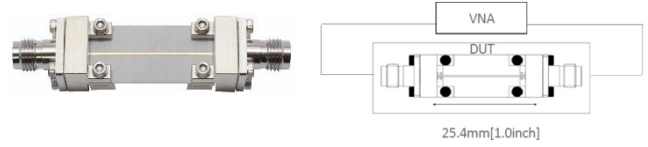


Specification	Test Result
Insertion loss : Min -3.7dB @ 0.1~40GHz	Insertion loss : Min -3.3dB @ 0.1~40GHz
Return loss : Max. -13dB @ 0.1~40GHz	Return loss : Max. -14.9dB @ 0.1~40GHz

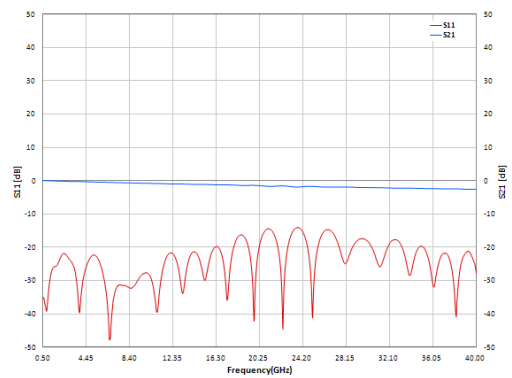


▶ Microstrip with Top Ground Test Result of G02SFB002

* PCB : 8 MIL R4003

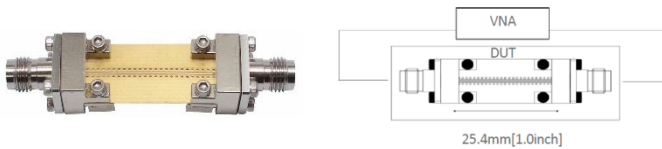


Specification	Test Result
Insertion loss : Min -3.7dB @ 0.1~40GHz	Insertion loss : Min -2.6dB @ 0.1~40GHz
Return loss : Max. -13dB @ 0.1~40GHz	Return loss : Max. -14.0dB @ 0.1~40GHz

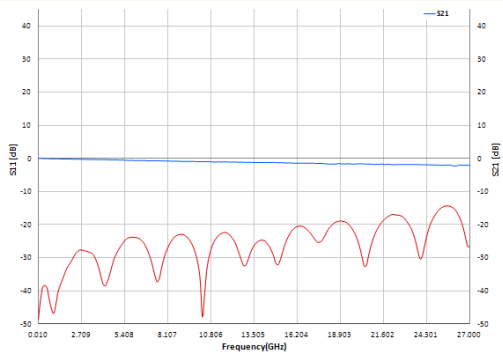


▶ GCPWG Test Result of G06SFB102

* PCB : 8 MIL R4003

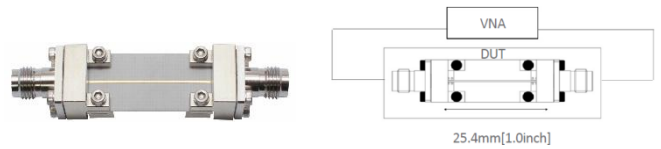


Specification	Test Result
Insertion loss : Min -3.2dB @ 0.1~27GHz	Insertion loss : Min -2.4dB @ 0.1~27GHz
Return loss : Max. -13dB @ 0.1~27GHz	Return loss : Max. -14.3dB @ 0.1~27GHz



▶ Microstrip with Top Ground Test Result of G06SFB102

* PCB : 8 MIL R4003



Specification	Test Result
Insertion loss : Min -3.2dB @ 0.1~27GHz	Insertion loss : Min -2.1@ 0.1~27GHz
Return loss : Max. -13dB @ 0.1~27GHz	Return loss : Max. -14.4@0.1~27GHz

