

End Launch Connector

Gigalane Test and Measurement Solution



End Launch 1.85mm 67GHz

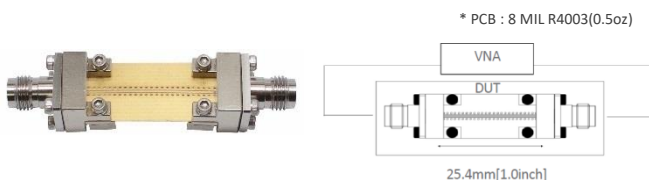
G14SFB001

Pin/Dielectric Diameters
0.13/0.75 (mm)

Gigalane's high performance End Launch Connectors are designed to provide low VSWR and low insertion loss with a maximum operating frequency of 110GHz. Available in 1.0mm (110 GHz), 1.85mm (67GHz), 2.4mm (50GHz), 2.92mm (40GHz), and SMA (27GHz). These high-speed connectors are ideally suited for high-speed digital and mmWave system development.

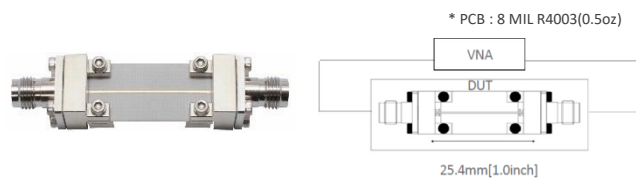
- DC to 67GHz
- Low VSWR, Low Insertion Loss
- Non-soldering
- Reusable
- Compact Profile

▶ GCPWG Test Result of G14SFB001



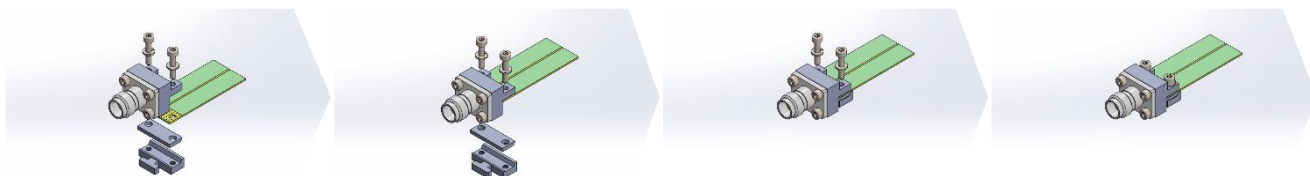
Specification	Test Result
Insertion loss : Min -5.0B @ 0.1~67GHz	Insertion loss : Min -4.70dB @ 0.1~67GHz
Return loss : Max. -13dB @ 0.1~67GHz	Return loss : Max. -14.84dB @ 0.1~67GHz

▶ Microstrip with Top Ground Test Result of G14SFB001



Specification	Test Result
Insertion loss : Min -5.0dB @ 0.1~67GHz	Insertion loss : Min -4.19dB @ 0.1~67GHz
Return loss : Max. -13dB @ 0.1~67GHz	Return loss : Max. -15.57dB @ 0.1~67GHz

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 (1.5 mm) mounting screws to be tighten until the connector is secured.
(Recommended PCB Thickness : ~1.0 mm)

End Launch Connector

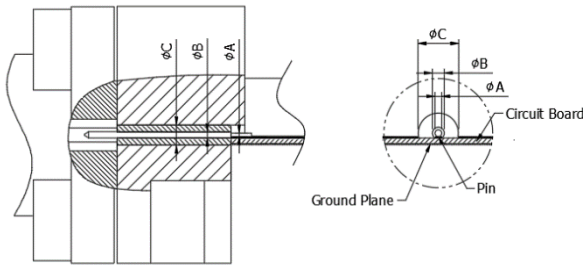
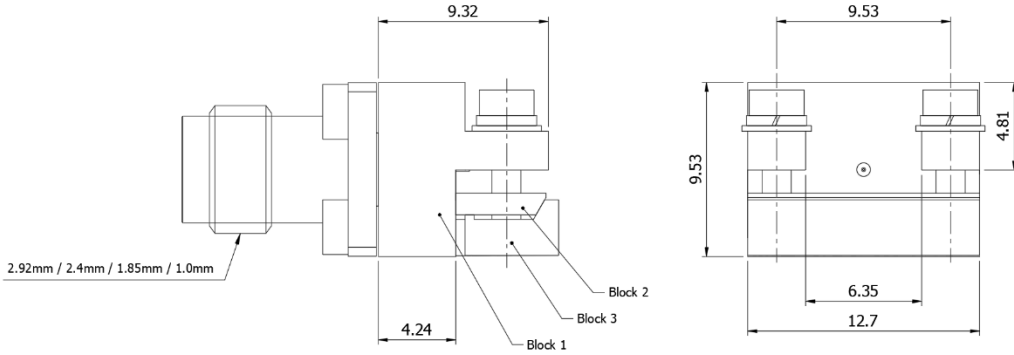


End Launch 1.85mm 67GHz G14SFB001

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0.13/0.75 (mm)



Technical Data



Series	Pin Diameter A	Pin Diameter B	Dielectric Diameter C
1.85 mm, 67 GHz	0.13	0.23	0.75

Electrical		
Frequency	1.85 mm	DC to 67 GHz
Insertion Loss (@ two connector + 1.0' length PCB)	1.85 mm	5.0 dB @ 67 GHz
VSWR (@ two connector + 1.0' length PCB)	1.85 mm	1.58:1
Impedance	50 Ω	

Environmental	
Thermal Shock	MIL-STD-202, method 107
Corrosion (Salt Spray)	N/A
Shock	MIL-STD-202, method 213
Vibration	MIL-STD-202, method 204
Moisture Resistance	MIL-STD-202, method 106

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

Gigalane

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