



RF Coaxial Precision Connectors

Solderless Board Mount High Performance Precision Connectors | DC-110 GHz

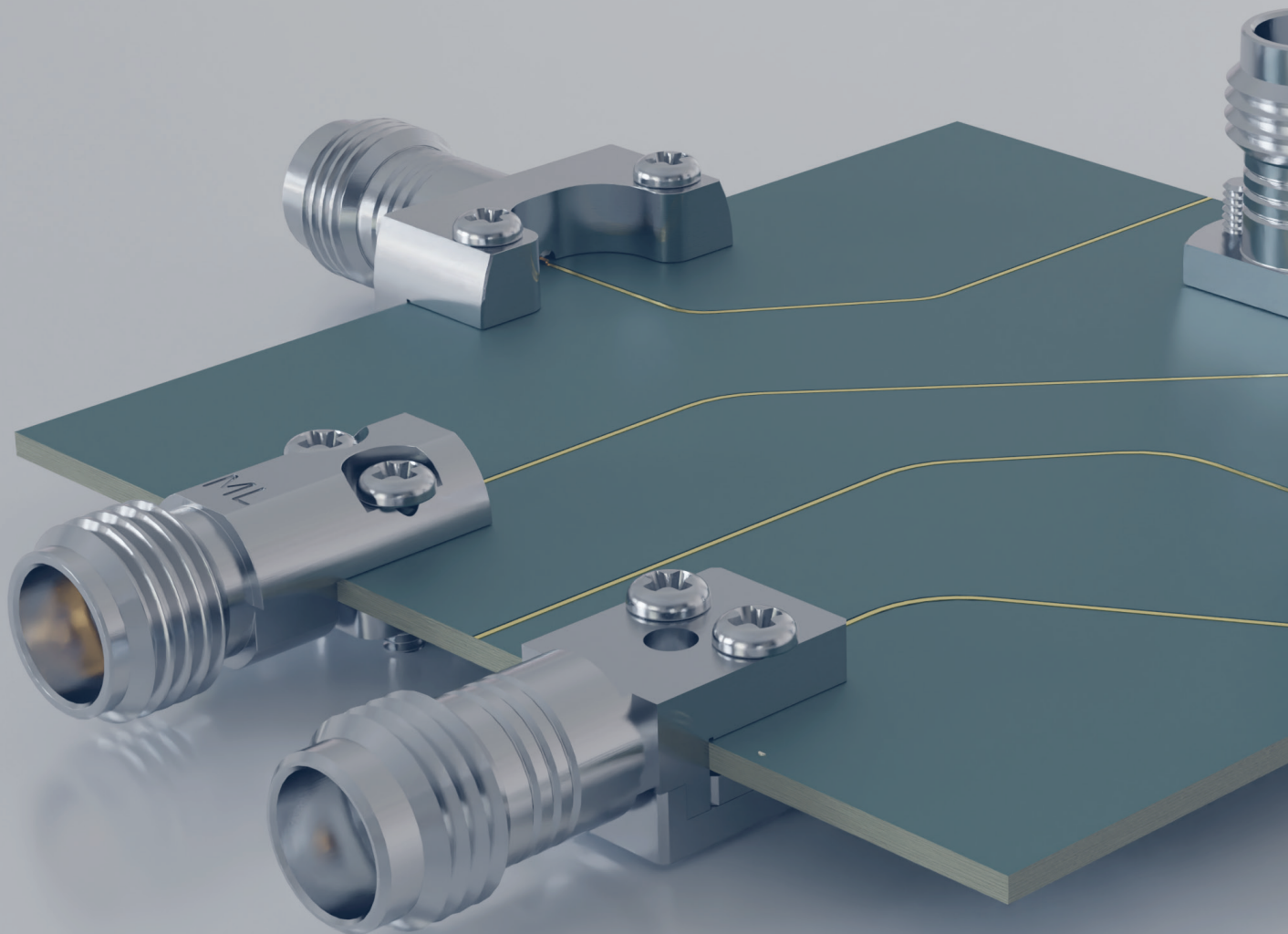
Test & Measurement



Telecommunications



High Speed Digital



We recognize industry's biggest challenge: consolidating a PCB stack up with the appropriate connector. We developed our own solderless precision connectors to support our instrumentation and our partners with the aim to save time and cost when it comes to connector selection all the way to footprint optimization

Features & Benefits

Solderless precision connectors

Excellent for design and maintenance flexibility
Accelerated installation time reducing production time and costs

Precision and durability in every detail

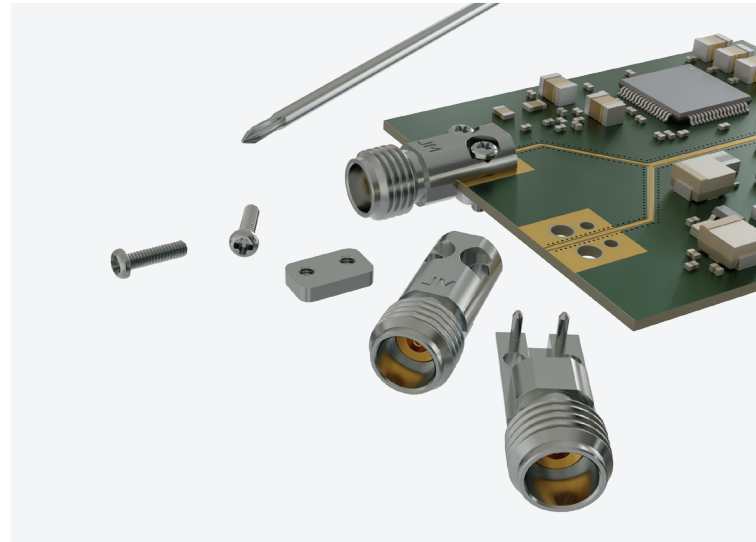
Premium materials in a deliberate design
Rated to 500 mating cycles typical for a long service life
Guiding pins added for increased assembly precision and speed

Excellent for high frequency applications

Consistent impedance profile with low insertion & return loss

Footprints can be optimized to application specific PCB stack ups

Test boards available for purchase



Standard offering includes the following configurations:

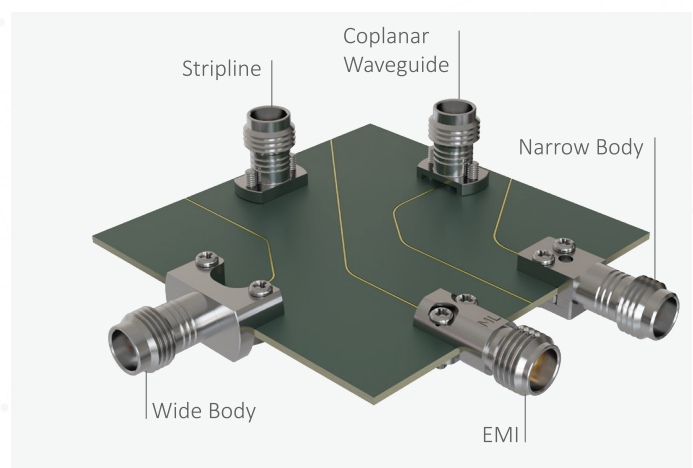
Vertical Launch		Edge Launch		
CPW	STL	EMI	Narrow Body	Wide Body
Exclusively CPW trace compatible	Exclusively Stripline trace compatible	Compatible with both Stripline and Coplanar Waveguide traces		

All the above configurations are available with the following interfaces:

Straight Jack (f) configuration solderless 50 Ω precision connectors interfaces				
1.00 mm	1.35 mm	1.85 mm	2.40 mm	2.92 mm
DC – 110 GHz	DC – 90GHz	DC – 67 GHz	DC – 50 GHz	DC – 40GHz

Robust design for maximum performance and productivity

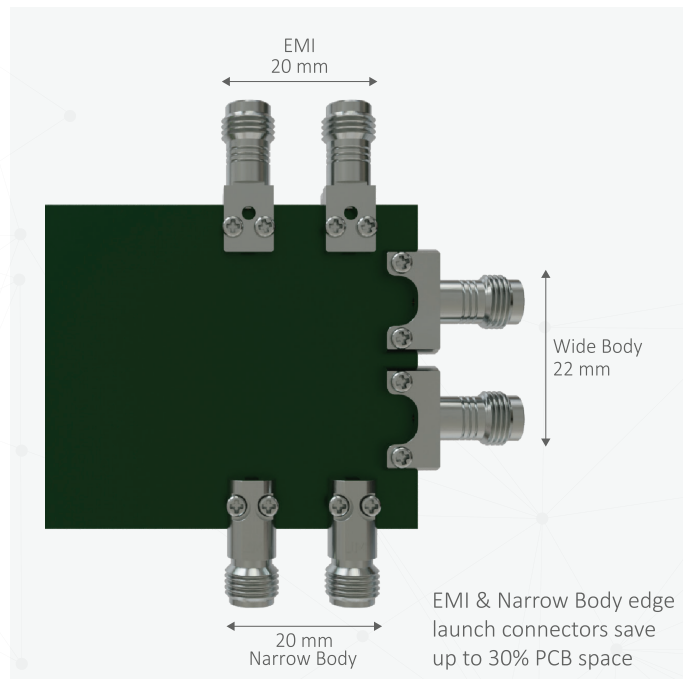
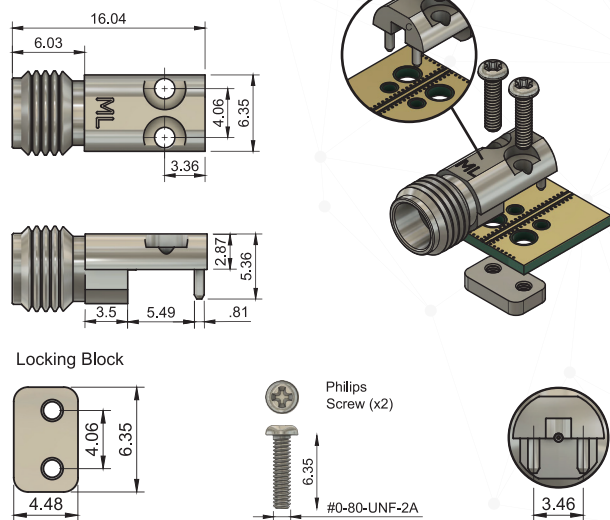
Mechanical & Environmental Specifications	
Temperature Range	+25 °C or +150 °C
Materials	Passivated stainless steel body Gold-plated Beryllium Copper contact
Male-Female Mating Cycles	500 mating cycles typical
Installation Cycles	100 mating cycles typical



EMI Edge Launch Connector

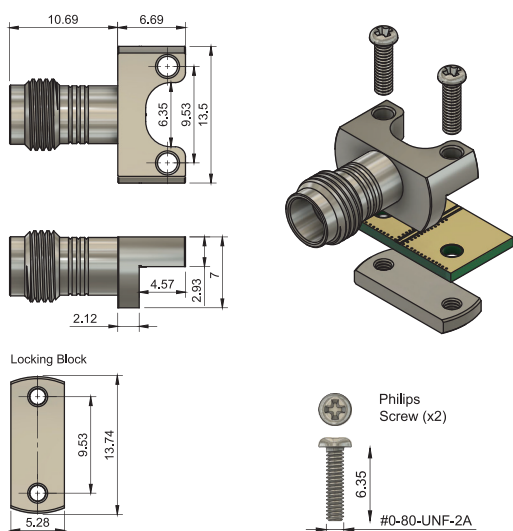
3 Piece Installation

Guiding pins increase assembly precision and speed



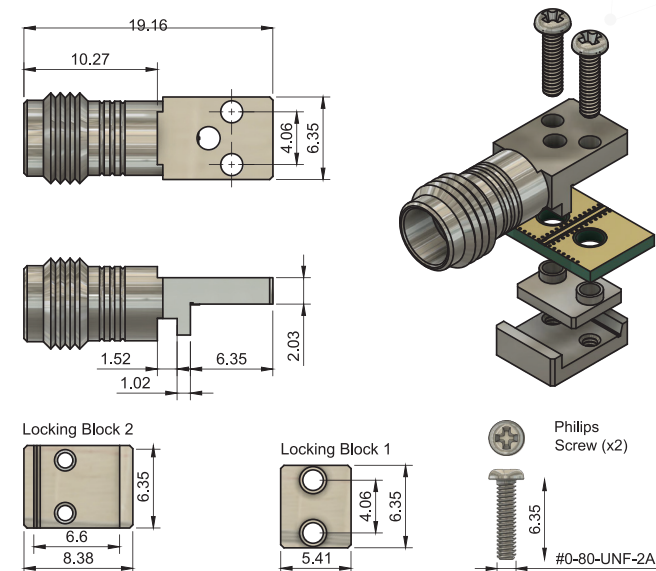
Wide Body Edge Launch Connector

3 Piece Installation



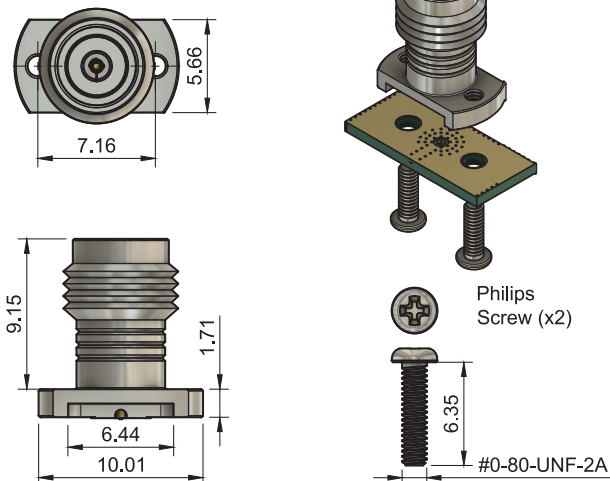
Narrow Body Edge Launch Connector

4 Piece Installation



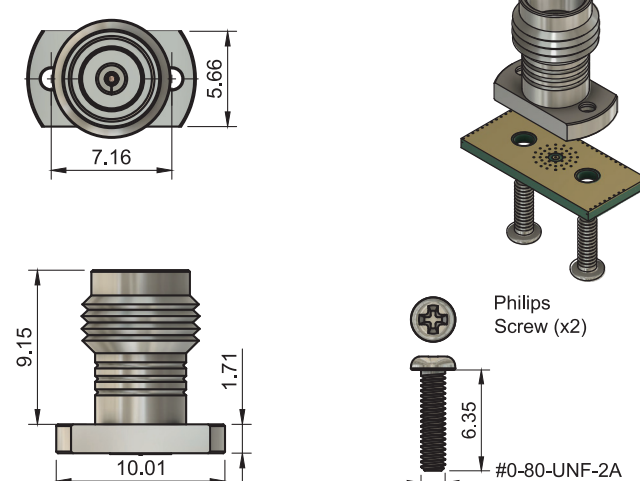
CPW Vertical Launch Connector

2 Piece Installation



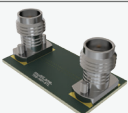
STL Vertical Launch Connector

2 Piece Installation



Signal Integrity Prioritized

SI Performance Standalone Connector		Vertical Launch		Edge Launch		
		CPW	STL	EMI	Narrow Body	Wide Body
						
1.00 mm at 110 GHz	VSWR	1.50 max	1.50 max	1.50 max	1.50 max	1.50 max
	Insertion Loss	≤ 1.26 dB	≤ 1.26 dB	≤ 1.26 dB	≤ 1.26 dB	≤ 1.26 dB
1.35 mm at 90 GHz	VSWR	1.30 max	1.30 max	1.50 max	1.30 max	1.30 max
	Insertion Loss	≤ 0.57 dB	≤ 0.57 dB	≤ 1.14dB	≤ 0.57 dB	≤ 0.57 dB
1.85 mm at 67 GHz	VSWR	1.30 max	1.30 max	1.30 max	1.30 max	1.30 max
	Insertion Loss	≤ 0.48 dB	≤ 0.48 dB	≤ 0.49 dB	≤ 0.49 dB	≤ 0.48 dB
2.40 mm at 50 GHz	VSWR	1.30 max	1.30 max	1.30 max	1.30 max	1.30 max
	Insertion Loss	≤ 0.42 dB	≤ 0.42 dB	≤ 0.42 dB	≤ 0.42 dB	≤ 0.42 dB
2.92 mm at 40 GHz	VSWR	1.30 max	1.30 max	1.30 max	1.30 max	1.30 max
	Insertion Loss	≤ 0.38 dB	≤ 0.38 dB	≤ 0.38 dB	≤ 0.38 dB	≤ 0.38 dB

SI Performance Connectors on board		Vertical Launch		Edge Launch		
		CPW	STL	EMI	Narrow Body	Wide Body
						
1.00 mm at 110 GHz	VSWR	1.50 max	1.50 max	1.50 max	1.50 max	1.50 max
	Insertion Loss	≤ 1.26 dB	≤ 1.26 dB	≤ 1.26 dB	≤ 1.26 dB	≤ 1.26 dB
1.35 mm at 90 GHz	VSWR	1.30 max	1.30 max	1.50 max	1.30 max	1.30 max
	Insertion Loss	≤ 0.57 dB	≤ 0.57 dB	≤ 1.14dB	≤ 0.57 dB	≤ 0.57 dB
1.85 mm at 67 GHz	VSWR	1.30 max	1.30 max	1.30 max	1.30 max	1.30 max
	Insertion Loss	≤ 0.48 dB	≤ 0.48 dB	≤ 0.49 dB	≤ 0.49 dB	≤ 0.48 dB
2.40 mm at 50 GHz	VSWR	1.30 max	1.30 max	1.30 max	1.30 max	1.30 max
	Insertion Loss	≤ 0.42 dB	≤ 0.42 dB	≤ 0.42 dB	≤ 0.42 dB	≤ 0.42 dB
2.92 mm at 40 GHz	VSWR	1.30 max	1.30 max	1.30 max	1.30 max	1.30 max
	Insertion Loss	≤ 0.38 dB	≤ 0.38 dB	≤ 0.38 dB	≤ 0.38 dB	≤ 0.38 dB

