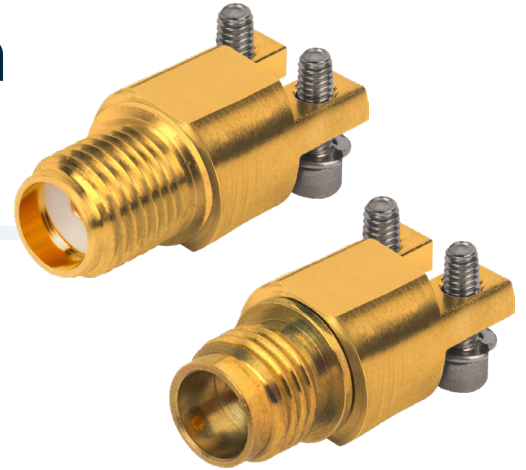


TraceGuard Edge Launch RF PCB Connectors



Features & Benefits

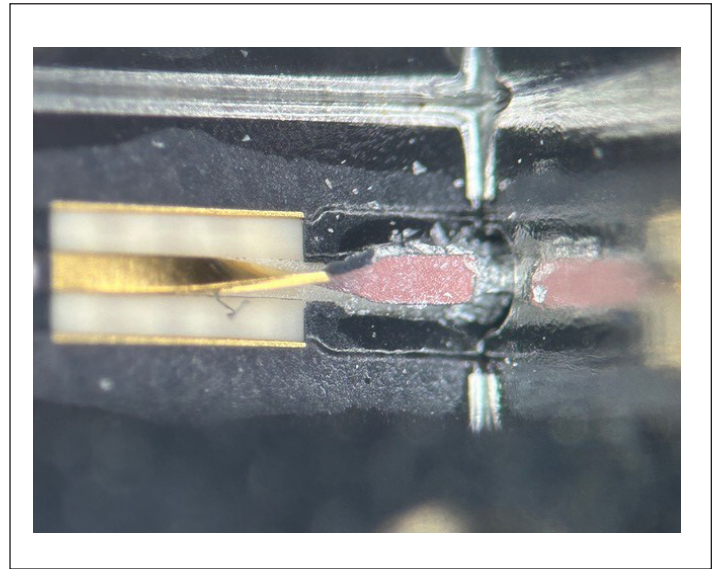
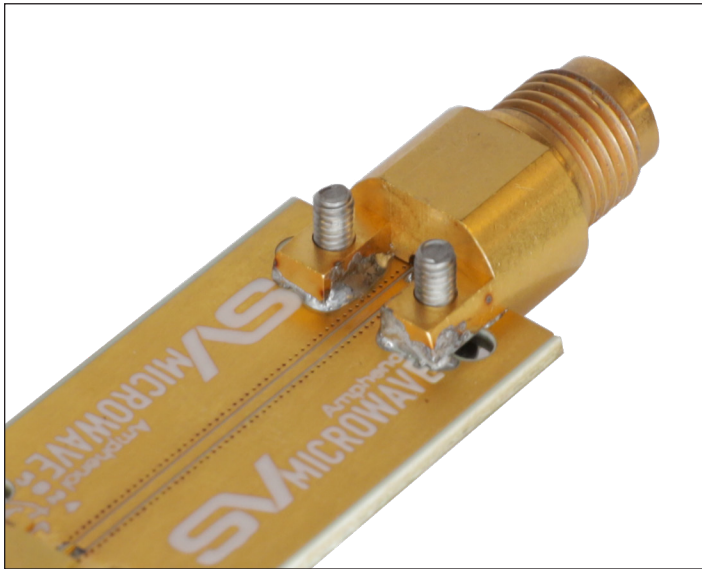
- Improved rotational captivation
- Maintains solder joint integrity on the PCB
- Features screws to help with fixturing
- DC up to 50 GHz

Applications

- 5G Communications
- Printed circuit boards
- Test and instrumentation (High mating cycle environments)

Problem: Traditional threaded RF PCB Edge launches wear down over high mating cycles. This can slowly introduce small rotational movements on the center contact that causes it to spin internally.

Consequence: This small rotation can eventually lead to damage of the solder joint. In extreme cases this can end in de-laminated traces or twisted solderwire.



Solution: TraceGuard offers a new design feature using a glass seal to isolate rotation away from the PCB. This eliminates any chance of the rotational movement of the center contact being transferred from the interface of the connector to the board transition. SV is able to utilize our glass seal capabilities to offer this feature without impacting lead-times.

COTS Product Specification Matrix

The table below presents a synthesized view of the primary specifications across the COTS lineup.

	SMA	2.92mm	2.4mm
Max Frequency	18 GHz	40 GHz	50 GHz
VSWR	$1.05 + .005 * f$	$1.03 + .005 * f$	$1.05 + .005 * f$
IL	$.03 * \sqrt{f}$	$.04 * \sqrt{f}$	$.05 * \sqrt{f}$
DWV	1000	1000	1000
Mating Cycles	500	500	500
Mating Torque	7-10 in-lbs	7-10 in-lbs	7-10 in-lbs
Temperature Rating	-65°C to 165°C	-65°C to 165°C	-65°C to 165°C
Vibration	Mil-STD-202, Method 204, Condition D, 20Gs	Mil-STD-202, Method 204, Condition D, 20Gs	Mil-STD-202, Method 204, Condition D, 20Gs
Shock	Mil-STD-202, Method 107, Condition B, -65°C to 165°C	Mil-STD-202, Method 107, Condition B, -65°C to 165°C	Mil-STD-202, Method 107, Condition B, -65°C to 165°C
Part Number	2921-61778	1521-60235	1621-60092

Recommended Mounting Pattern

