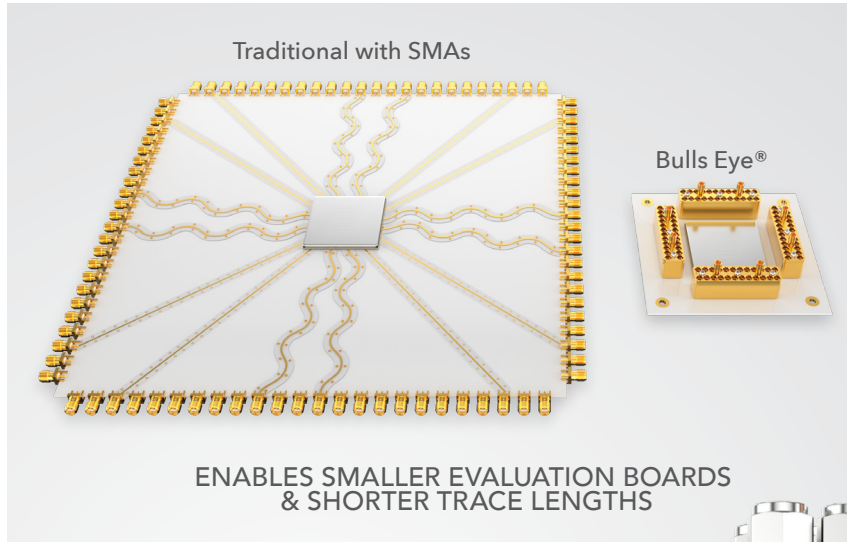


TEST & MEASUREMENT

OPTIMIZED PERFORMANCE TO 90 GHZ

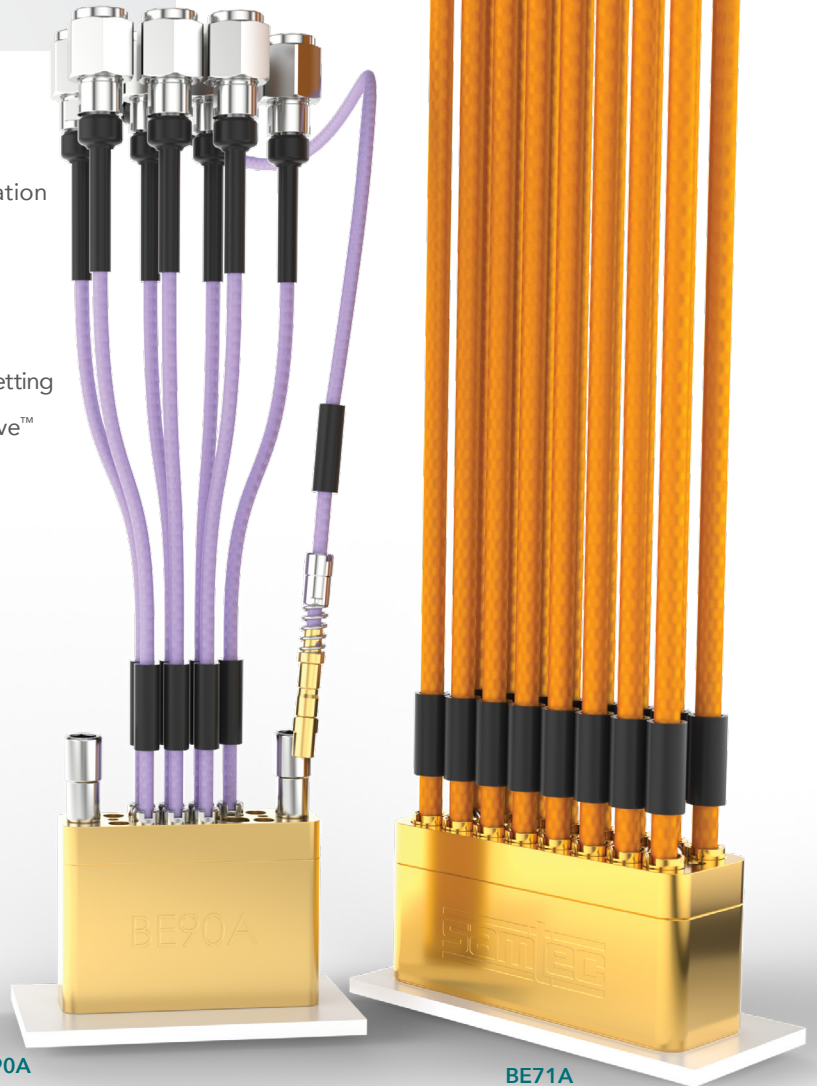
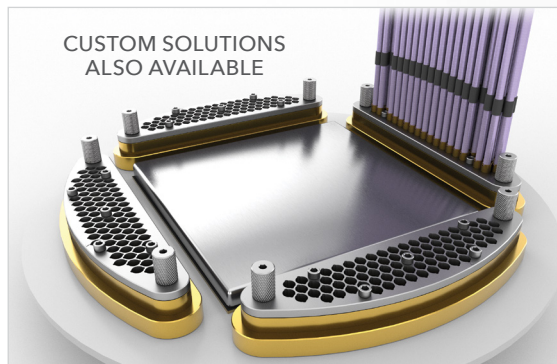


DC TO	PAM 4
90 GHz	224 Gbps

Bulls Eye® High-Performance Test

The Bulls Eye® high-performance test assembly features a high-density, space-saving design that enables smaller evaluation boards and shorter trace lengths in test and measurement applications to 90 GHz.

- Compression mounts to the board for placement directly adjacent to the SerDes being characterized
- Solderless design improves cost and is easy to use within a lab setting
- Microwave cable assemblies: .047" and .086", and Nitrowave™ phase and amplitude stable in distinctive Samtec orange
- End 2 connection to instrumentation: 1.00 mm, 1.35 mm, 1.85 mm, 2.40 mm or 2.92 mm
- High-density, space-saving design
- Single row or double row
- Complete list of applications: SerDes characterization, clock/data recovery (CDR), mmWave radar, automated test equipment, FR2 5G networks



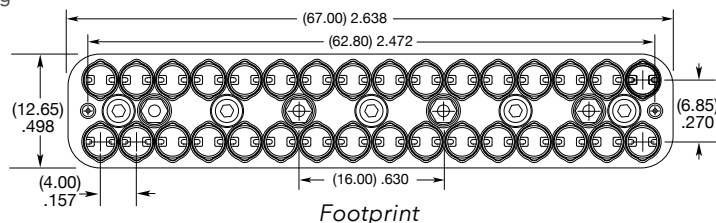
PRODUCT FAMILY CROSS REFERENCE GUIDE

ASSEMBLY	90 GHz	71 GHz	70 GHz	50 GHz	40 GHz
Block Bottom View					
SerDes Characterization	224 Gbps PAM4	224 Gbps PAM4	112 Gbps PAM4	56 Gbps PAM4	
End 2 Connector	1.00 mm 1.35 mm	1.85 mm	1.85 mm	2.40 mm	2.92 mm
Samtec Series	BE90A	BE71A	BE70A	BE40A	
Cable Type	.047	High-Performance Nitrowave™ LL071	.086	MWC-2350CU-01	
Cable Management	Yes				
PCB Transition	Microstrip/CPW or Stripline				
Bulls Eye® Connector Design	Spring-Loaded Contact; 360° Grounding	Robust Pogo-Pin; 360° Grounding	Spring-Loaded Contact; 360° Grounding	Pogo-Pin for Signal & Ground	
No. of Rows	Single or Double			Double	
No. of Positions	1x: 2, 4, 8, 12 2x: 4, 8, 12, 16	1x: 2, 4, 8, 12 2x: 3, 4, 6, 8, 10, 12, 14, 16		2x: 3, 4, 6, 8, 10, 12, 14, 16	
Impedance	50 Ω				
FPGA Development Kit	-			Xilinx® Zynq® UltraScale+™ RFSoc ZCU1275	
SI Evaluation Kit	-	70 GHz: REF-213864-01		50 GHz: REF-213497-01	

71 GHz ASSEMBLIES WITH NITROWAVE™ CABLE

BE71A	TRANSMISSION TYPE	END 2	PHASE MATCH (RANGE)	PHASE MATCH (LOCATION)	2	POSITIONS PER ROW	OVERALL LENGTH
	-S = Stripline -M = Microstrip	-18SP = 1.85 mm Straight Plug -18BJ = 1.85 mm Straight Jack	-H = 0.5 Pico-second -1 = 1.0 Pico-second -2 = 2.0 Pico-seconds -5 = 5.0 Pico-seconds -N = No Phase Matching	-R = In-row -A = Across-row		-03, -04, -06, -08, -10, -12, -14, -16	-“XXXX” = Overall length in millimeters -0152 (152 mm) 5.984” minimum
DC TO	PAM 4						
71 GHz	224 Gbps						

BE71A
End 2 Connectors:
1.85 mm (71 GHz)
2.92 mm (40 GHz)



16 POSITIONS PER ROW SHOWN