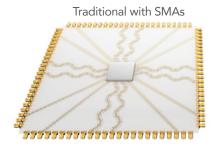


# HIGH-PERFORMANCE TEST ASSEMBLIES TO 90 GHz

## **FEATURES & BENEFITS**

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
- 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









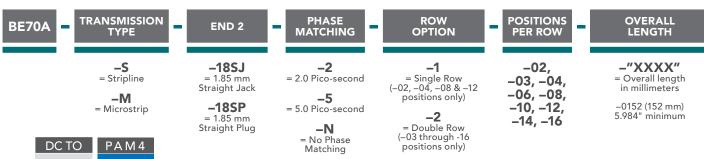
#### **HIGH-DENSITY & SPACE-SAVING**

Enables smaller evaluation boards and shorter trace lengths.

### PRODUCT FAMILY CROSS REFERENCE GUIDE

ASSEMBLY	90 GHz	70 GHz	50 GHz	40 GHz	TEST ASSEMBLY	SERDES CHARACTERIZATION
Block Bottom View	J*0000 O			© (D) O O	BE90A,	PAM4 224 G b p s
End 2 Connector	1.00 & 1.35 mm	1.85 mm	2.40 mm	2.92 mm	90 GHz	
Samtec Series	BE90A	BE70A	BE40A			
Cable Type	.047	.086	MWC-23500	CU-01		
Cable Management	Yes				BE70A,	PAM4
PCB Transition	Microstrip/CPW or Stripline					
Bulls Eye® Connector Design	Spring-Loaded	Contact; 360° Grounding	Pogo-Pin for Signal & Ground		70 GHz	112 G b p s
No. of Rows	Single or Double		Double			
No. of Positions	<b>1x:</b> 2, 4, 8, 12 <b>2x:</b> 4, 8, 12, 16	<b>1x:</b> 2, 4, 8, 12 <b>2x:</b> 3, 4, 6, 8, 10, 12, 14, 16	<b>2x:</b> 3, 4, 6, 8, 10,	12, 14, 16		PAM4
Impedance	50 Ω				BE40A.	
FPGA Development Kit	-		Xilinx® Zynq® UltraScale+™ RFSoC ZCU1275		50 GHz	56 G b p s
SI Evaluation Kit	_	70 GHz: REF-213864-01	50 GHz: REF-213497-01			

#### 70 GHz ASSEMBLIES



(4.00)

70 112 GHz G b p s

BE70A End 2 Connectors: 1.85 mm (70 GHz)

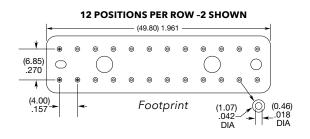


# 12 POSITIONS PER ROW -1 SHOWN (61.25) 2.41 (62.0) 244

(1.07)

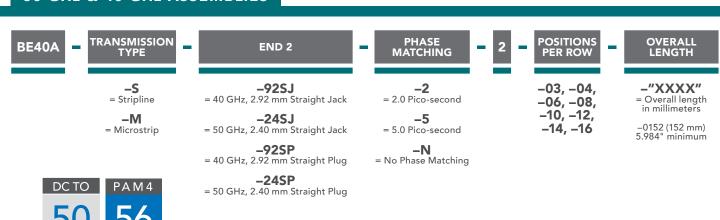
.042-DIA (0.46)

.018 DIA



**Footprint** 

#### 50 GHz & 40 GHz ASSEMBLIES



#### BE40A

**End 2 Connectors:** 2.40 mm (50 GHz) 2.92 mm (40 GHz)



