

## EXTREME PERFORMANCE HIGH-DENSITY ARRAYS

(0.80 mm) .0315" x (1.80 mm) .071" PITCH



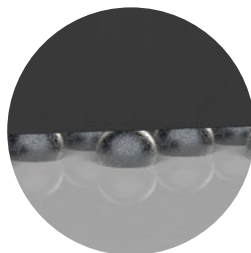
### FEATURES & BENEFITS

- 112 Gbps PAM4 per channel
- 112 fully shielded differential pairs per square inch
- 4.0 Tbps aggregate data rate - 9 IEEE, 400 G channels
- Extremely low crosstalk to 40 GHz+
- Incredibly tight impedance control
- Minimal variance in data rate as stack height increases
- 40% less space vs traditional arrays with the same data throughput

NRZ	PAM4
56 Gbps	112 Gbps



High-speed mezzanine connector and cable in one product family



BGA attach to board for greater density and optimized trace breakout region



Guaranteed two points of contact to ensure a more reliable connection

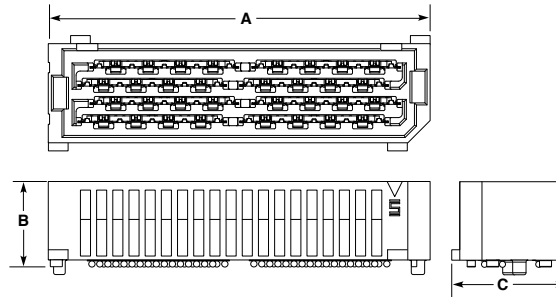
### KEY SPECIFICATIONS

STACK HEIGHTS	TOTAL PAIRS	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	CURRENT RATING	WORKING VOLTAGE	LEAD-FREE SOLDERABLE
7 mm & 10 mm	Up to 32 pairs	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni	2.1 A per pin (signal) 9.6 A per pin (ground)	200 VAC	Yes

**0.80 mm x 1.80 mm PITCH • EXTREME PERFORMANCE ARRAYS**

SERIES	STYLE	NO. OF ROWS	NO. OF BANKS	LEAD STYLE	PLATING OPTION	SOLDER TYPE	K	"X"R
<b>NVAM</b> Terminal	<b>-DP</b> = 4 pairs per wafer	<b>-02</b>	<b>-1</b> = 1 Bank	<b>-02.0</b> = (2 mm) .0787" (NVAM only)	<b>-S</b> = 30 μm (0.76 μm) Gold on contact area, Matte Tin on solder tail	<b>-2</b> = Lead-Free Solder Charge	<b>-K</b> = (3.50 mm) .138" DIA Polyimide film Pick & Place Pad	<b>-TR</b> = Tape & Reel
<b>NVAF</b> Socket		<b>-03</b>	<b>-2</b> = 2 Banks	<b>-05.0</b> = (5 mm) .1969"				<b>-FR</b> = Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)
		<b>-04</b>						

**NVAM**  
Board Mates:  
NVAF

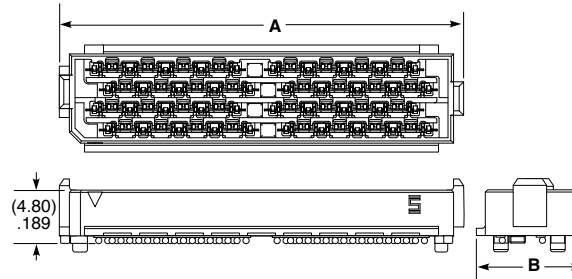
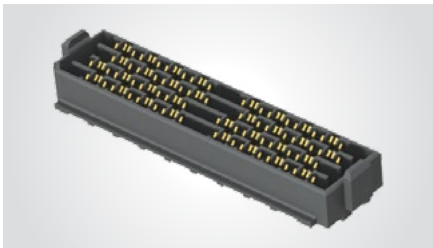


PRELIMINARY

NO. OF BANKS	A	LEAD STYLE	B	NO. OF ROWS	C
-1	(21.75) .856	-02.0	(5.46) .215	-02	(7.80) .307
-2	(37.75) 1.486	-05.0	(8.46) .333	-03	(9.60) .378
				-04	(11.40) .449

View complete specifications at: [samtec.com?NVAM](http://samtec.com?NVAM)

**NVAF**  
Board Mates:  
NVAM



PRELIMINARY

NO. OF BANKS	A
-1	(20.25) .797
-2	(36.25) 1.427

NO. OF ROWS	B
-02	(6.00) .236
-03	(7.80) .307
-04	(9.60) .378

MATED HEIGHTS*		
NVAF LEAD STYLE	NVAM LEAD STYLE	
	-02.0	-05.0
-05.0	(7.00) .276	(10.00) .394

AGGREGATE DATA RATE (NRZ)					
448 Gbps	672 Gbps	896 Gbps	1344 Gbps	1792 Gbps	
1 Bank			2 Bank		
2 Row	3 Row	4 Row	2 Row	3 Row	4 Row
8 Pairs	12 Pairs	16 Pairs	24 Pairs	32 Pairs	

\*Processing conditions will affect mated height.

**Notes:**  
Some sizes, styles and options are non-standard, non-returnable

View complete specifications at: [samtec.com?NVAF](http://samtec.com?NVAF)

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