NOVARAY® EXTREME PERFORMANCE HIGH-DENSITY ARRAYS (0.80 mm) .0315" x (1.80 mm) .071" PITCH

FEATURES & BENEFITS

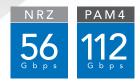
- 112 Gbps PAM4 per channel
- 112 fully shielded differential pairs per square inch
- 4.0 Tbps aggregate data rate 9 IEEE, 400 G channels
- Extremely low crosstalk to 40 GHz+
- Incredibly tight impedance control
- Minimal variance in data rate as stack height increases
- 40% less space vs traditional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



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

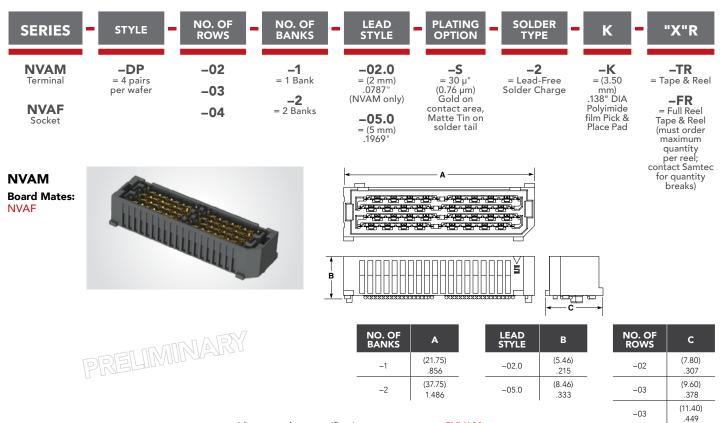
KEY SPECIFICATIONS

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

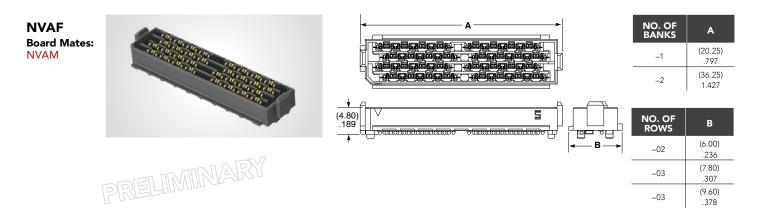
samtec.com/NovaRay



0.80 mm x 1.80 mm PITCH • EXTREME PERFORMANCE ARRAYS



View complete specifications at: samtec.com?NVAM



AGGREGATE DATA RATE (NRZ)

896

Gbps

4 Row 2 Row

16 Pairs

1344

Gbps

2 Bank

3 Row

24 Pairs

1792

Gbps

4 Row

32 Pairs

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

*Processing conditions will affect mated height.

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

View complete specifications at: samtec.com?NVAF

samtec.com/NovaRay

448

Gbps

2 Row

8 Pairs

1 Bank

672

Gbps

3 Row

12 Pairs

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Samtec: NVAF-DP-02-1-05.0-S-2-K-TR