

NVAF-DP-04-2-05.0-S-2



NVAF-DP-02-1-05.0-S-2



NVAF-DP-03-2-05.0-S-2



(0.80 mm) .0315" X (1.80 mm) .071"

NVAF SERIES

# EXTREME DENSITY & PERFORMANCE

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?NVAF](http://www.samtec.com?NVAF)

**Insulator Material:**

Black LCP

**Contact Material:**

Copper Alloy

**Shield:**

Copper Alloy

**Plating:**

Au or Sn over

50 μ" (1.27 μm) Ni

**Current Rating:**

Testing Now!

**RoHS Compliant:**

Yes

**Lead-Free Solderable:**

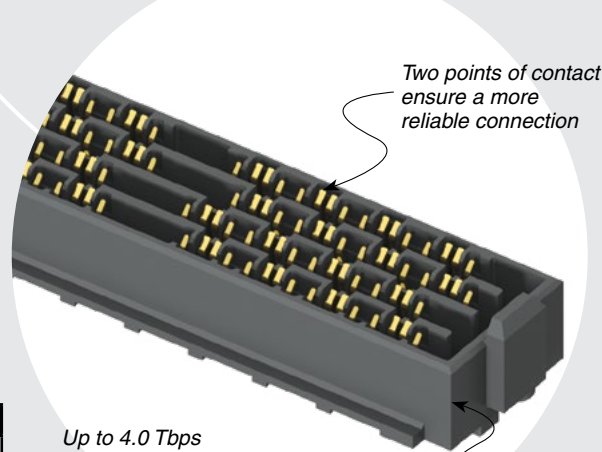
Yes

Mates with:

NVAM

NRZ	PAM4
56	112
Gbps	Gbps

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	



Two points of contact ensure a more reliable connection

Up to 4.0 Tbps aggregate data rate (9 IEEE, 400 G channels)

Minimal variance in data rate as stack height increases

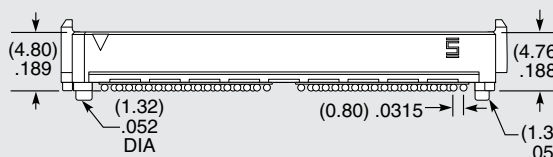
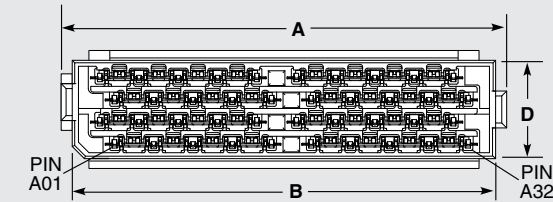
NVAF	STYLE	NO. OF ROWS	NO. OF BANKS	LEAD STYLE	PLATING OPTION	SOLDER TYPE	K	TAPE & REEL
	-DP	-02 = 2 Rows	-1 = 1 Bank	-05.0 = (5 mm) .1969"	-S = 30 μ" (0.76 μm) Gold on contact area, Matte Tin on solder tail	-2 = Lead-Free Solder Charge		(Required callout)
		-03 = 3 Rows	-2 = 2 Banks					-TR = Tape & Reel
		-04 = 4 Rows						-FR = Full Reel Tape & Reel Packaging (Must order max. quantities per reel. Contact Samtec for parts per reel)

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

\*Processing conditions will affect mated height.

NO. OF BANKS	A	B
-1	(20.25) .797	(18.45) .726
-2	(36.25) 1.427	(34.45) 1.356

NO. OF ROWS	C	D	E
-02	(4.40) .173	(3.44) .135	(6.00) .236
-03	(6.20) .244	(5.24) .206	(7.80) .307
-04	(8.00) .315	(7.04) .277	(9.60) .378



NVAF-DP-04-2-05.0-X-X SHOWN

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

Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications. Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.