



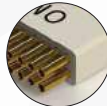





Dual Row Nano Strip

VERTICAL SMT (TYPE VV) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
NPD PIN CONNECTOR 	02 - 80	VV  	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES   M MOUNTING HOLE  HT HIGH TEMP RoHS RoHS COMPLIANT 
NSD SOCKET CONNECTOR 			

EXAMPLES:



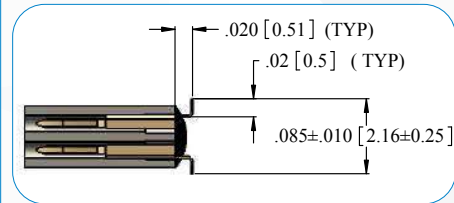
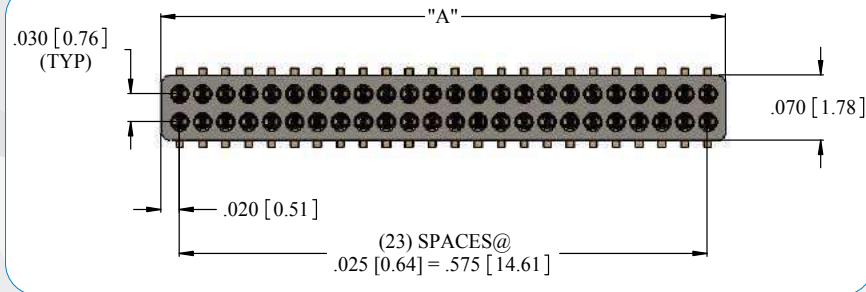
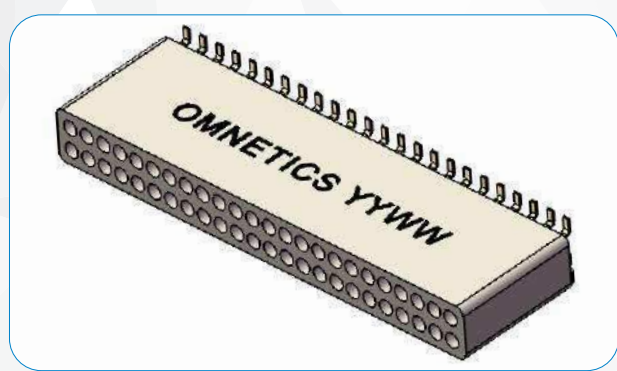
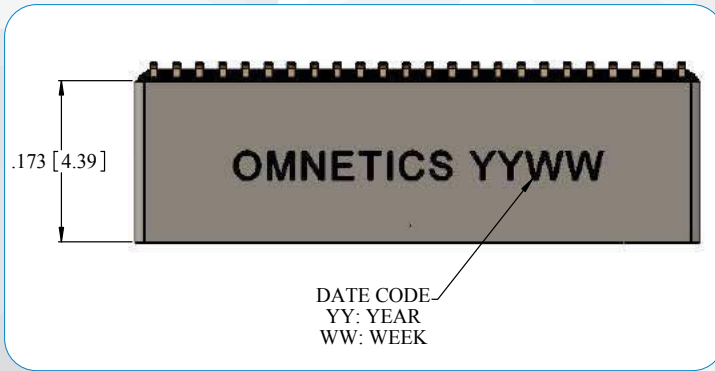
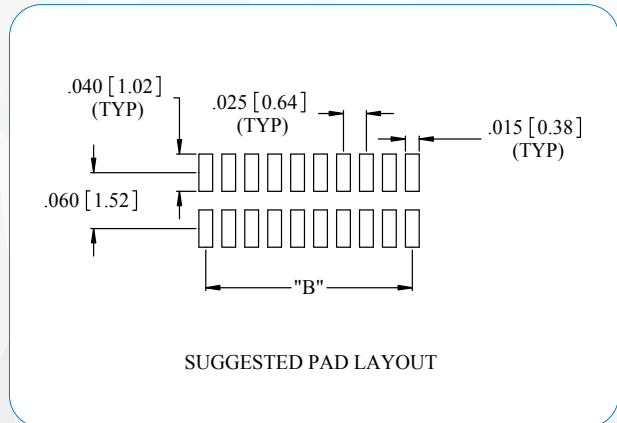
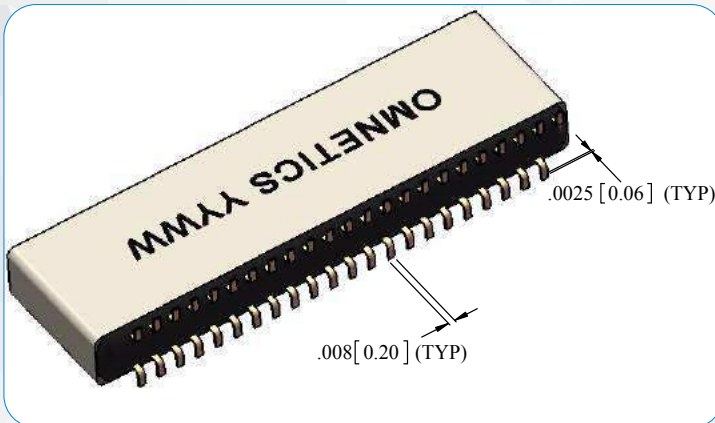
NPD-48-VV



NSD-34-VV-GS

Dual Row Nano Strip

NPD-VV LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Multiply the number of contact cavities minus 1 by .025"	_____
Add fixed end length constant	.040"
Total Length (Dimension A)	_____

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

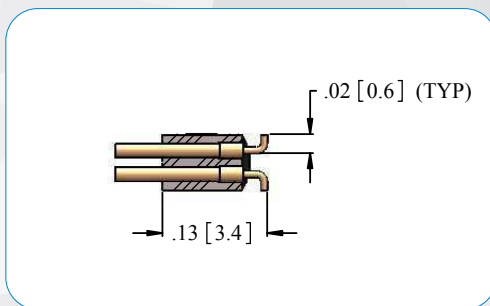
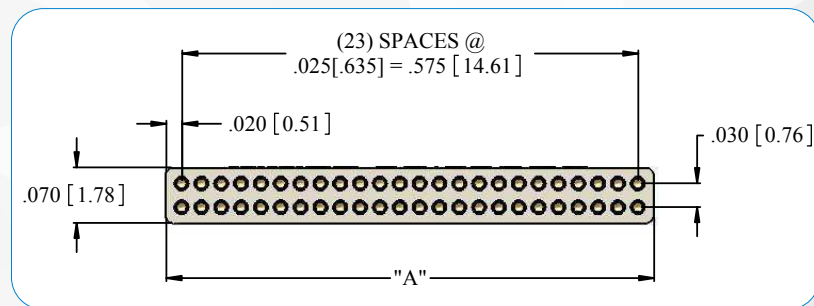
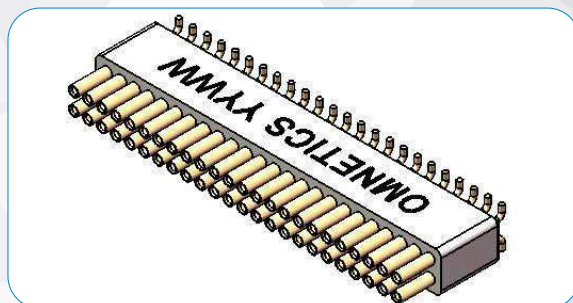
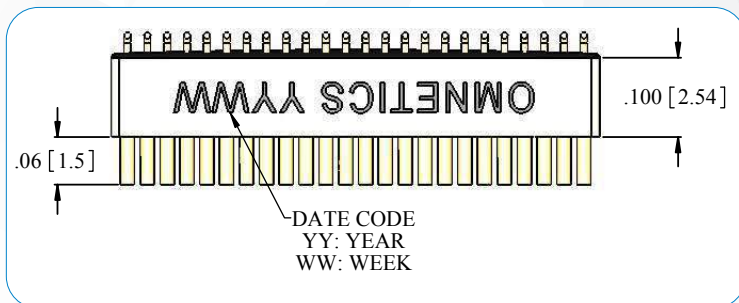
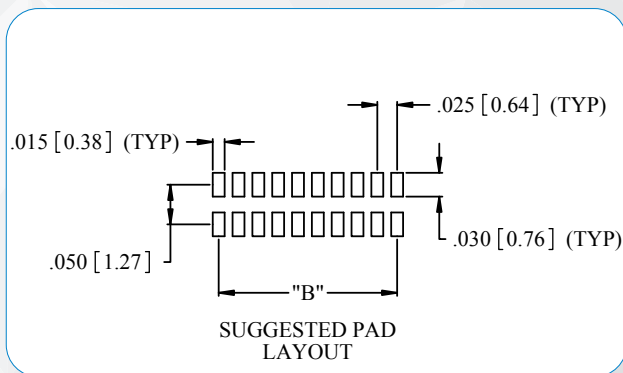
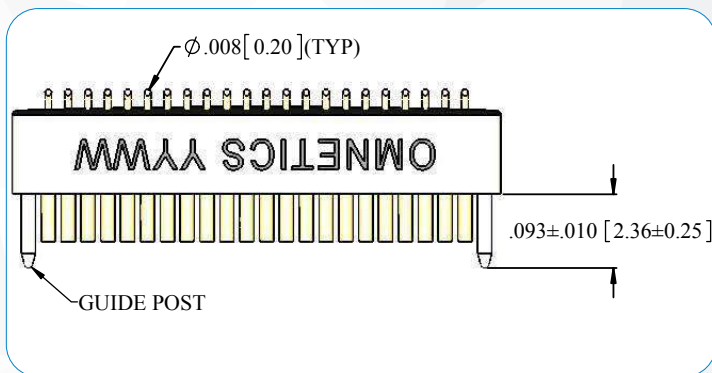
Multiply the number of contacts in one row minus 1 by .025"	_____
If hardware features are within the contact area:	
Add .025" for each guide post hole in the same row	_____
Total Length (Dimension B)	_____

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Dual Row Nano Strip

NSD-VV LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	_____
Add 1 contact cavity for each guide post hole in the same row	_____
Total contact cavities in a single row	_____
Multiply the number of contact cavities minus 1 by .025"	_____
Add fixed end length constant	.040"
Total Length (Dimension A)	_____

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

Multiply the total number of contacts in one row minus 1 by .025"	_____
If hardware features are within the contact area:	
Add .025" for each guide post hole in the same row	_____
Total Length (Dimension B)	_____

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Dual Row Nano Strip

VERTICAL SMT (TYPE VV)

Vertical SMT Nano Strip connectors require a minimal amount of board space on flex circuits and rigid circuit boards. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL 32139. These rugged lightweight connectors are suitable for the most demanding applications.

These connectors are available in standard sizes ranging from 2 to 80 positions, as well as custom configurations.



ELECTRO-MECHANICAL SPECS

- Durability: 2000 Cycles
- Temperature: -55°C to +125 °C (200 °C w/HTE)
- Current rating: 1 AMP per contact
- Voltage Rating (DWV): 250 VAC RMS Sea Level
- Insulation Resistance: 5,000 Megohms min @ 100 VDC
- Shock: 100 G's discontinuity < 10 nanoseconds
- Vibration: 20 G's discontinuity < 10 nanoseconds
- Thermal Vacuum Outgassing: NASA SP-R-0022
- Contact Resistance: 71 Milliohms max (71 mV max @ 1 AMP)
- Mating/Unmating Force: 2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: Soldered per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination: Solder plated per AMS-P-81728 (Non-RoHS)
- RoHS Pin PCB Tail Termination: Hard gold plated per ASTM B488
- RoHS Socket PCB Tail Termination: Hard gold plated per ASTM B488

- Insulator: Polyphenylene Sulfide per MIL-M-24519
- Pin: Gold Plated BeCu
- Socket: Gold Plated Copper Alloy
- Encapsulant: Epoxy