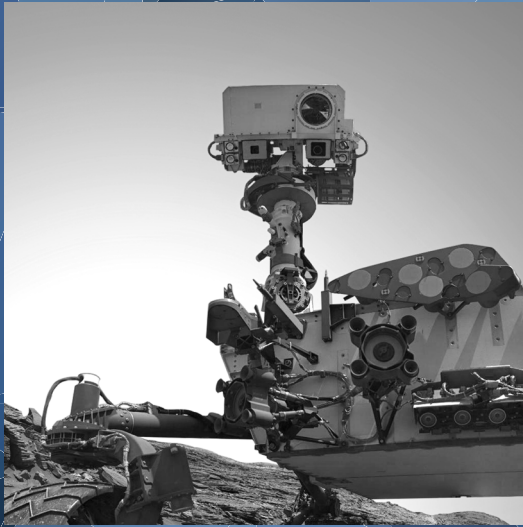


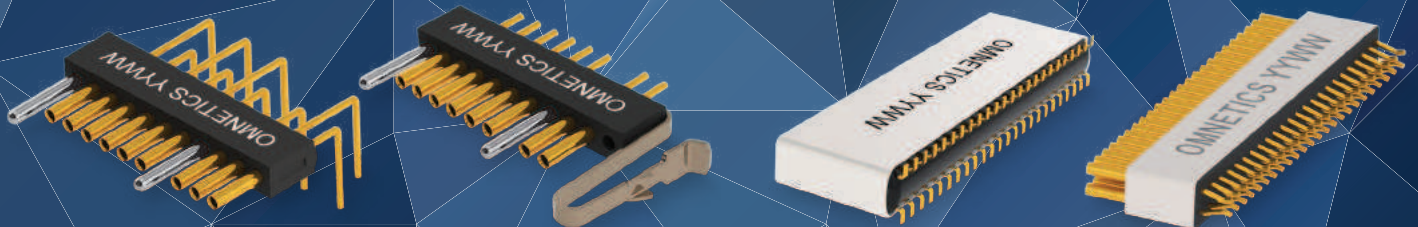
OMNETICS

CONNECTOR CORPORATION



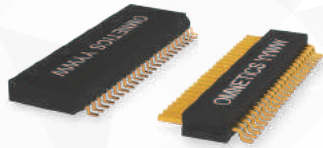
MICRO & NANO STRIP CONNECTORS

Micro .050" (1.27mm) & Nano .025" (.64mm) Catalog

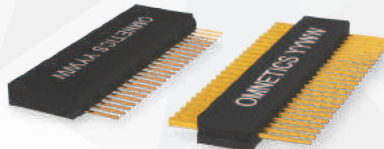


Nano Strip Picture Index

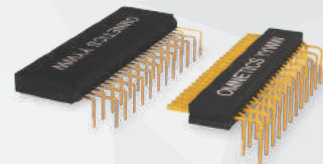
SINGLE ROW NANO STRIP (NPS/NSS) SERIES:



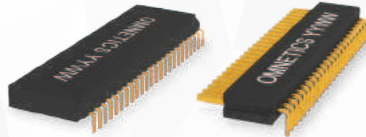
Horizontal SMT (AA)
Pages 89-92



Straight Tail (DD)
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Short/Long Alt. Thru-Hole (H2)
Pages 97-100

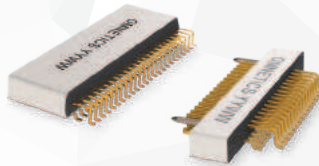


Vertical SMT (VV)
Pages 101-104

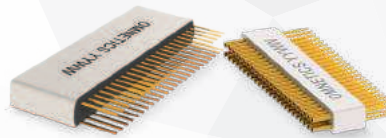


Pre-Wired (WD)
Pages 105-108

DUAL ROW NANO STRIP (NPD/NSD) SERIES:



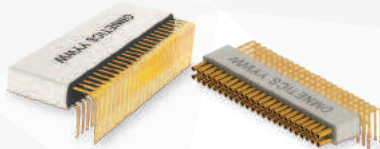
Horizontal SMT (AA)
Pages 109-112



Straight Tail (DD)
Pages 113-116



Flex Tail (FF)
Pages 117-120



Short/Long Alt. Thru-Hole (H2)
Pages 121-124

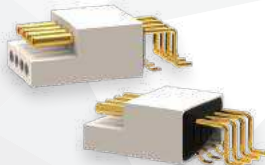


Vertical SMT (VV)
Pages 125-128

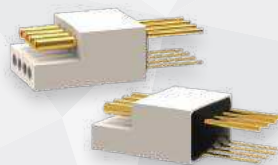


Pre-Wired (WD)
Pages 129-132

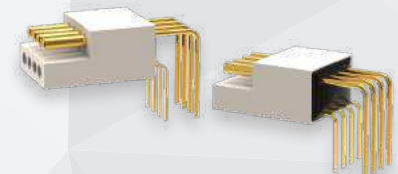
Polarized Nano (PZN)



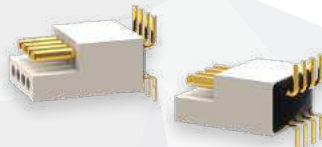
Horizontal SMT (AA)
Pages 133-135



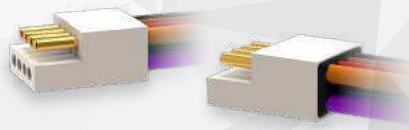
Straight Tail (DD)
Pages 136-138



Short/Long Alt. Thru-Hole (H2)
Pages 139-141



Vertical SMT (VV)
Pages 142-144



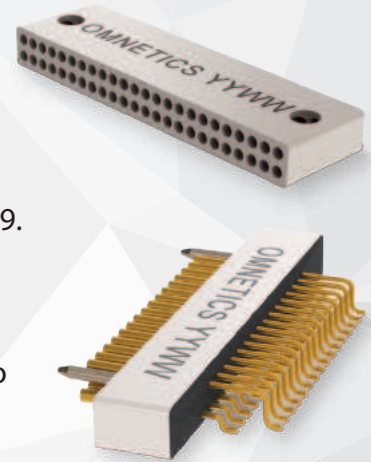
Pre-Wired (WD)
Pages 145-147

Dual Row Nano Strip

HORIZONTAL SMT (TYPE AA)

Dual Row Horizontal Nano Strip connectors offer an extremely low profile package that is well suited to pick and place methods. They have a very tight pitch of .025" (.64 mm) centerlines. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system, conforming to the requirements of MIL-DTL-32139. These durable lightweight connectors are perfect 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

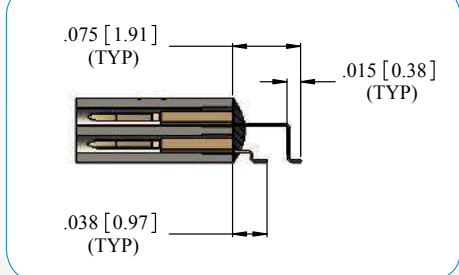
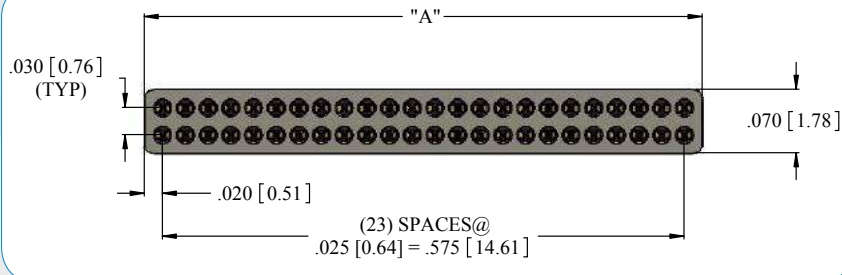
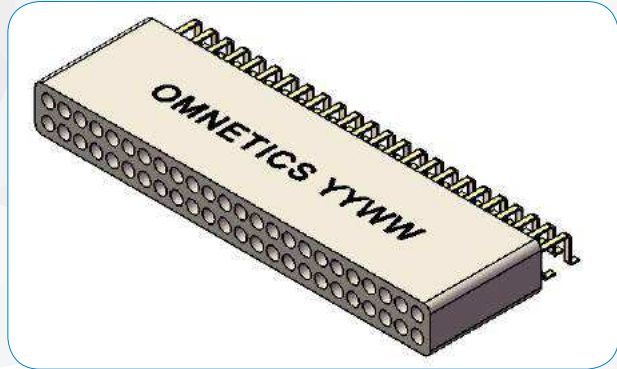
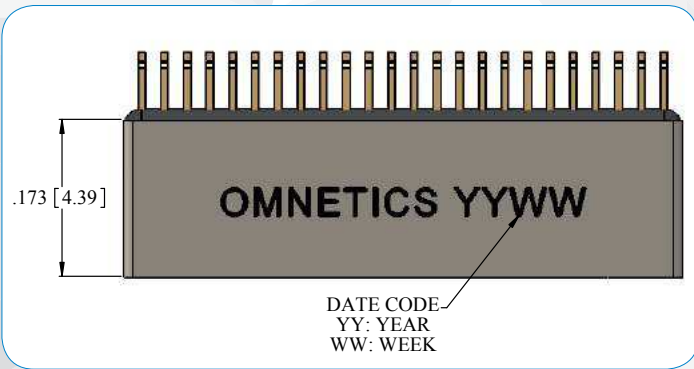
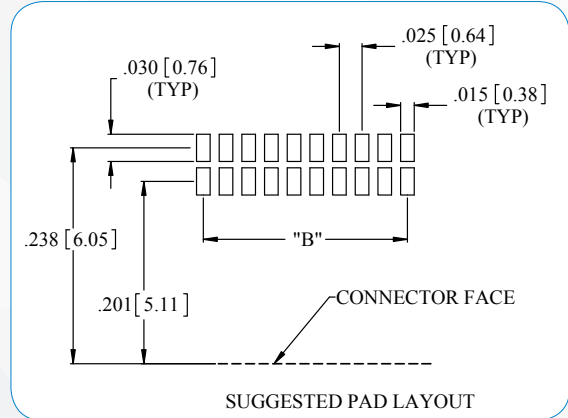
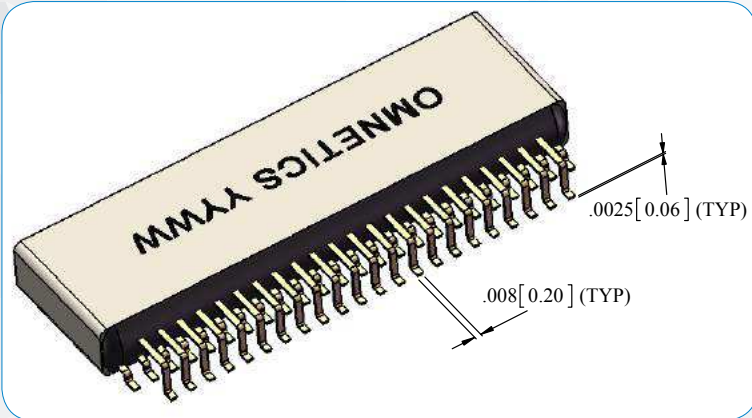
MATERIAL SPECIFICATIONS

- 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

Dual Row Nano Strip

NPD-AA 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":

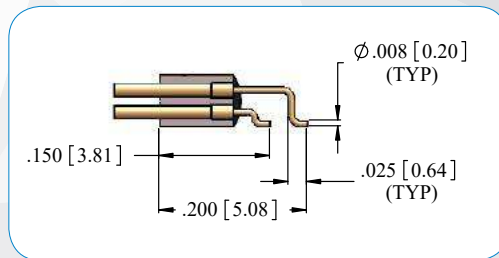
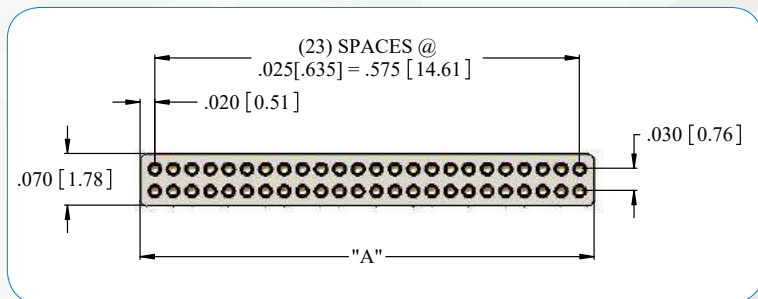
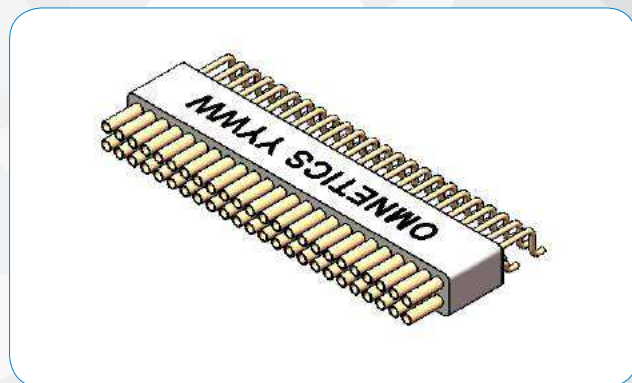
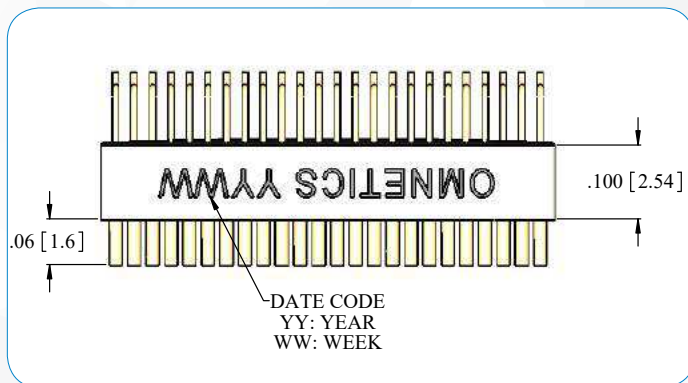
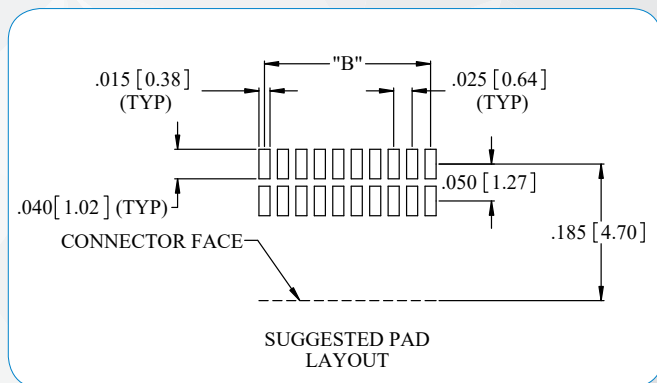
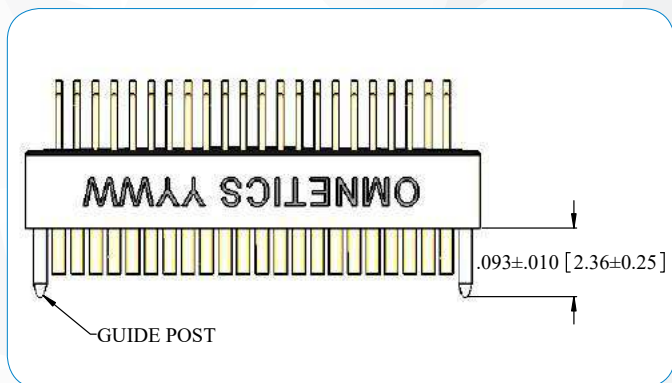
Multiply the number of contacts in one row minus 1 by .025"	_____
If hardware features are within the contact area:	_____
Add .025" for each guide post hole in the same row	_____
Total Length (Dimension B)	_____

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-AA 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"


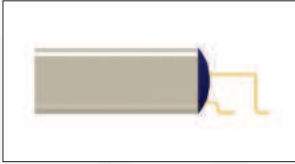
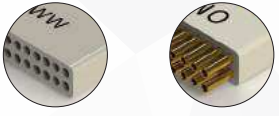



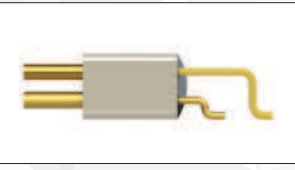
To determine pad pattern layout length "B":	
Multiply the total number of contacts in one row minus 1 by .025"	_____
If hardware features are within the contact area:	
Add .025" for each guide post hole in the same row	_____
Total Length (Dimension B)	_____

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

HORIZONTAL SMT (TYPE AA) ORDERING GUIDE

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

EXAMPLES:



NPD-48-AA



NSD-34-AA-GS

Dual Row Nano Strip

STRAIGHT TAIL (TYPE DD)

Dual Row Nano Strip connectors are configured with simple straight tails (Integral and Crimped). Suitable for vertical thru-hole mounting to fine pitched flex circuits, these ruggedized Nano connectors are designed on .025" (.64 mm) centerlines. Straight tails are commonly used in a variety of wrap termination such as neuroscience related applications. These connectors feature Omnetics' gold plated Flex Pin contact system that conforms to the requirements of MIL-DTL-32139. These connectors are available in standard sizes ranging from 2 through 80 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.



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

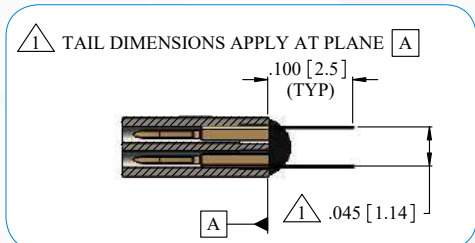
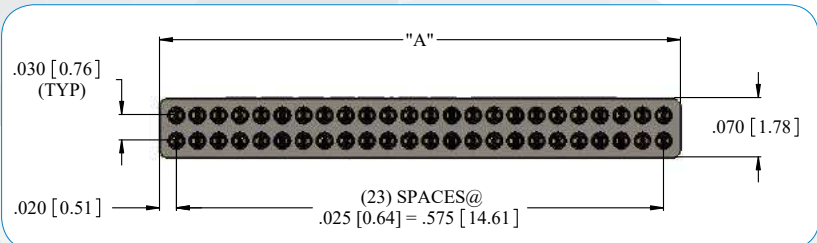
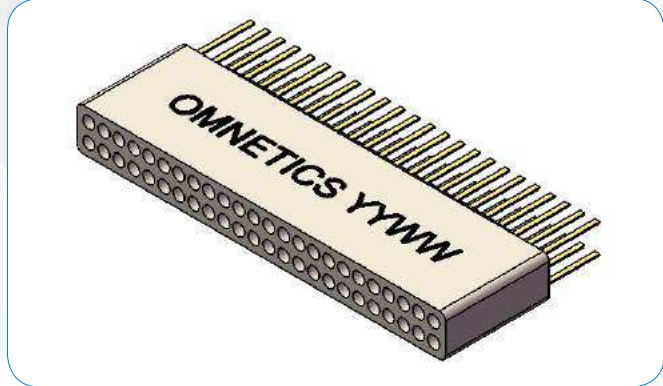
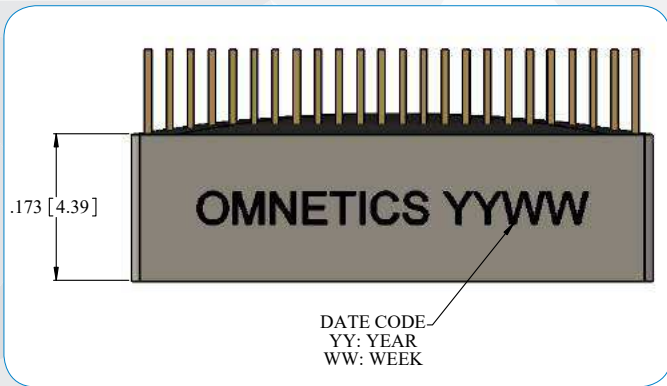
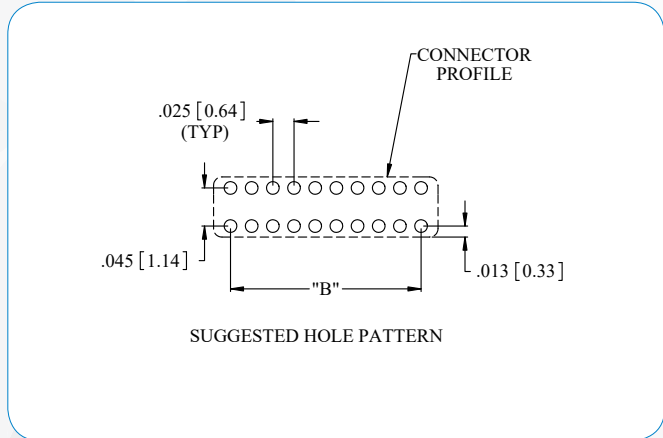
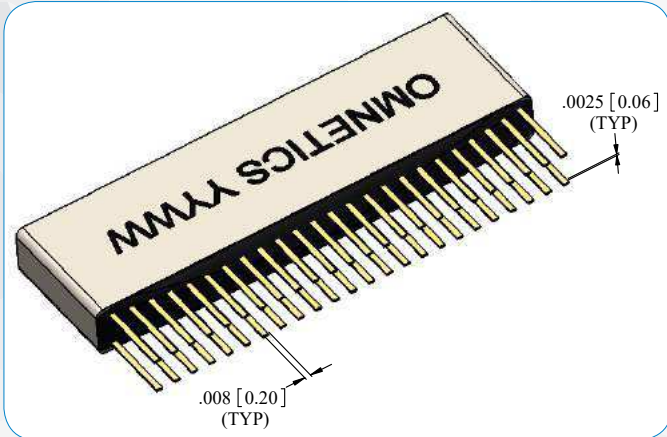
MATERIAL SPECIFICATIONS

- 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

Dual Row Nano Strip

NPD-DD 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":

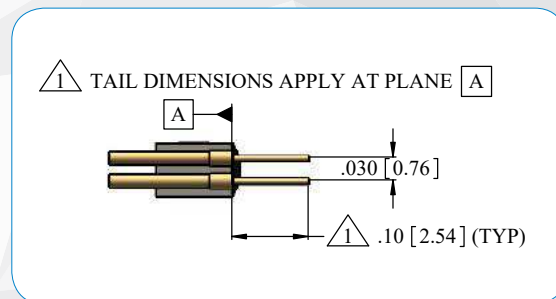
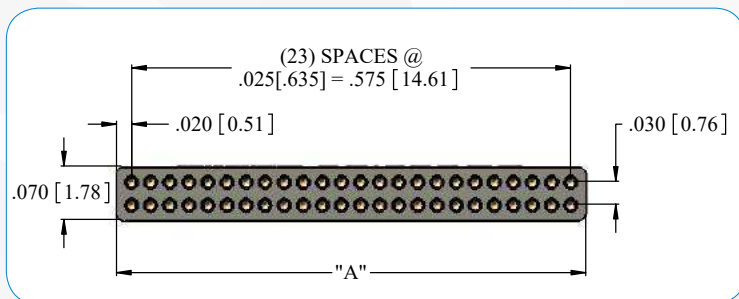
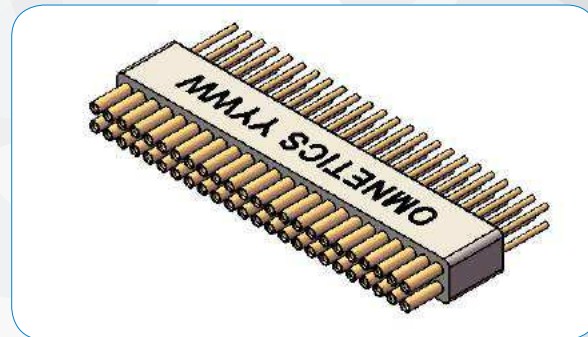
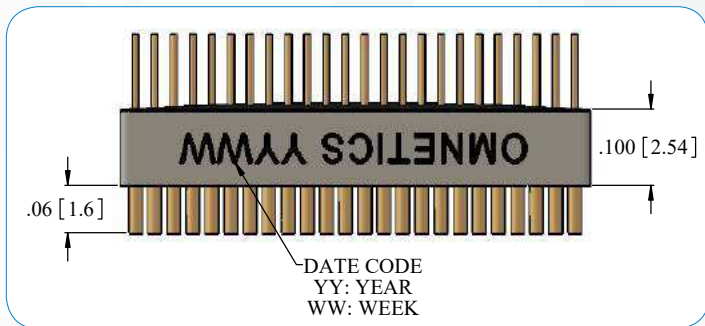
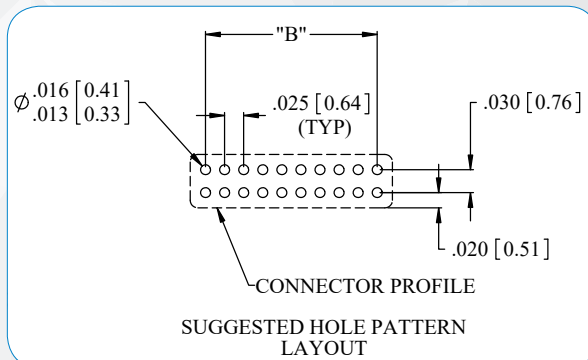
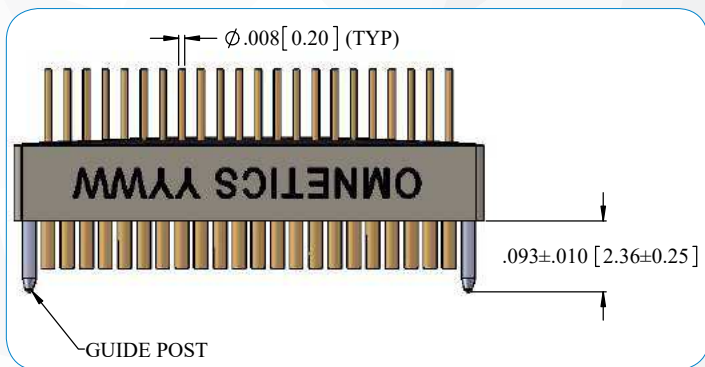
Multiply the number of contacts in one row minus 1 by .025"	_____
If hardware features are within the contact area:	_____
Add .025" for each guide post hole in the same row	_____
Total Length (Dimension B)	_____

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-DD 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":


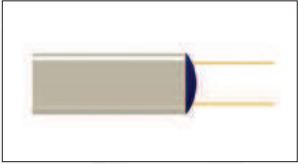
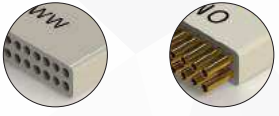



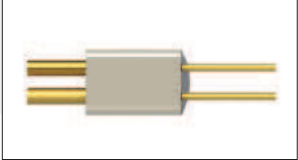
Multiply the total number of contacts in one row minus 1 by .025"	_____
If hardware features are within the contact area:	_____
Add .025" for each guide post hole in the same row	_____
Total Length (Dimension B)	_____

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

STRAIGHT TAIL (TYPE DD) ORDERING GUIDE

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

EXAMPLES:



NPD-46-DD-GS



NSD-48-DD-S-RoHS

Dual Row Nano Strip

FLEX TAIL (TYPE FF)

Flex Mount Nano Strip connectors are a low profile ruggedized connector spaced on .025" (.64 mm) centerlines. The flex tails are formed together in an hourglass shape, allowing a double sided flex circuit to slide between the 2 rows. The spring tension holds the flex in place during the soldering process. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-32139. These durable lightweight connectors are suitable for the most demanding applications. These connectors are available in standard sizes ranging from 2 through 80 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.



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

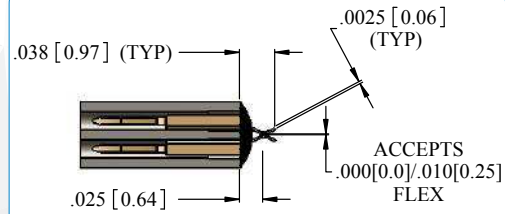
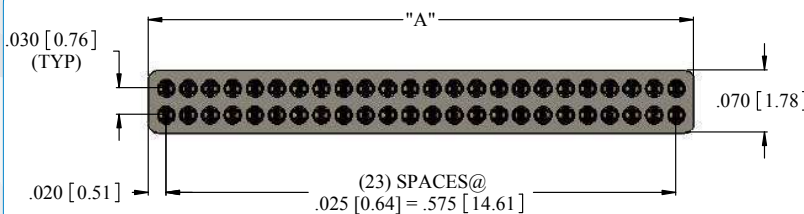
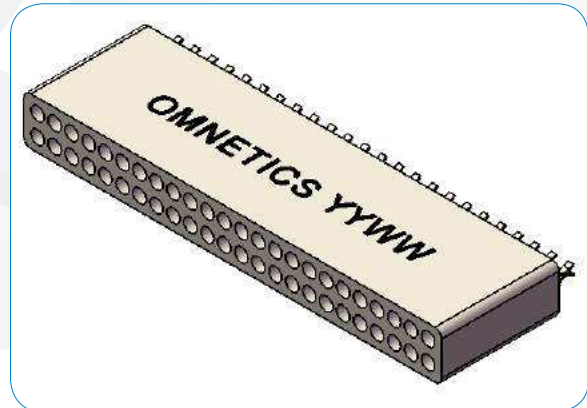
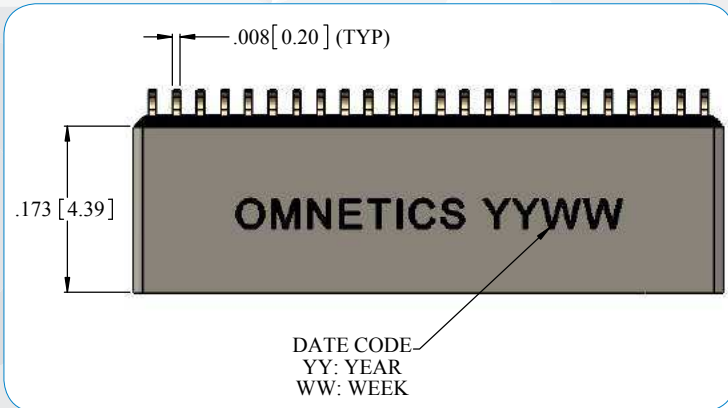
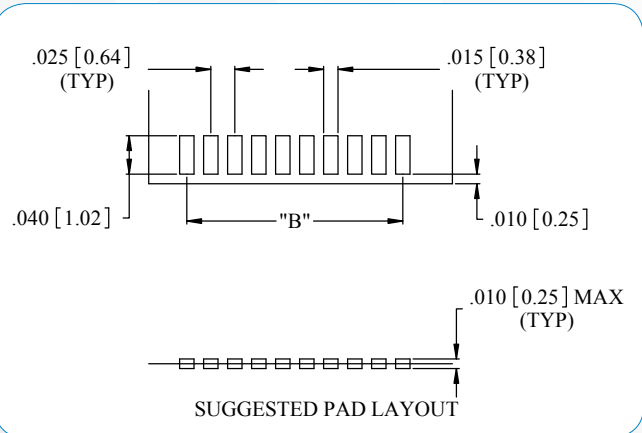
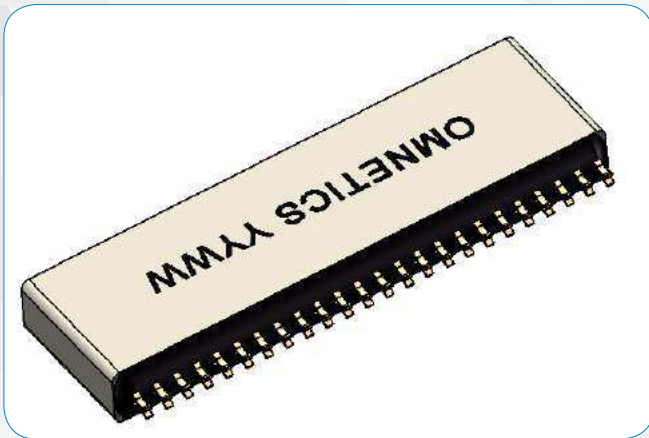
MATERIAL SPECIFICATIONS

- 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

Dual Row Nano Strip

NPD-FF 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":

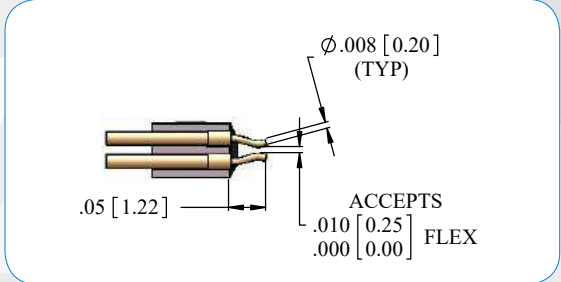
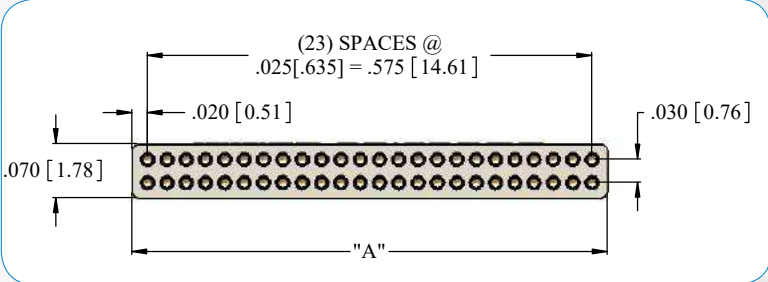
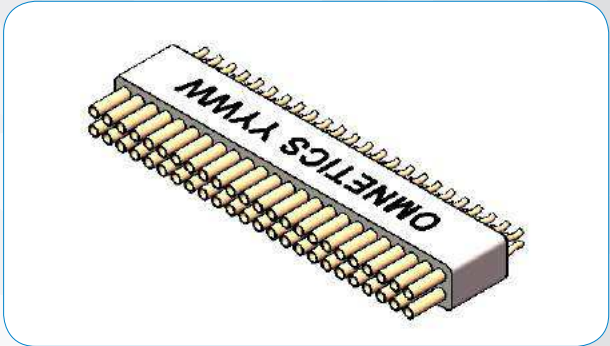
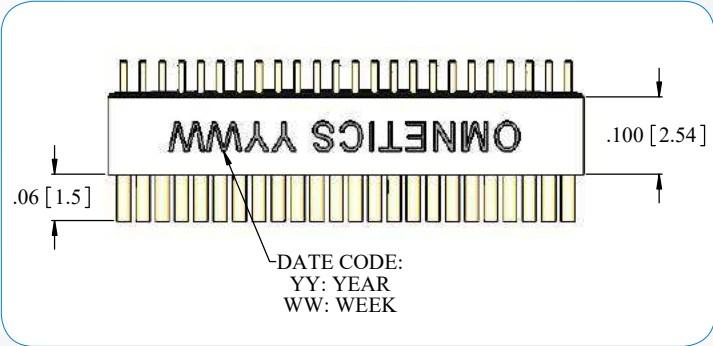
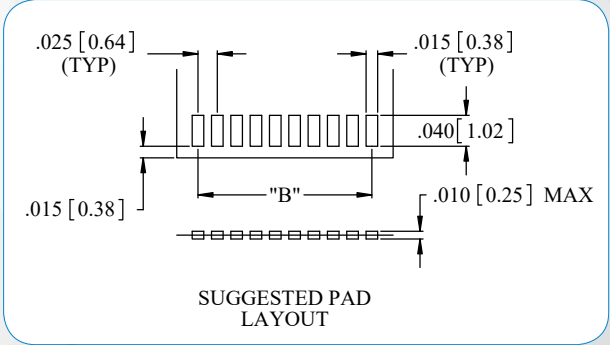
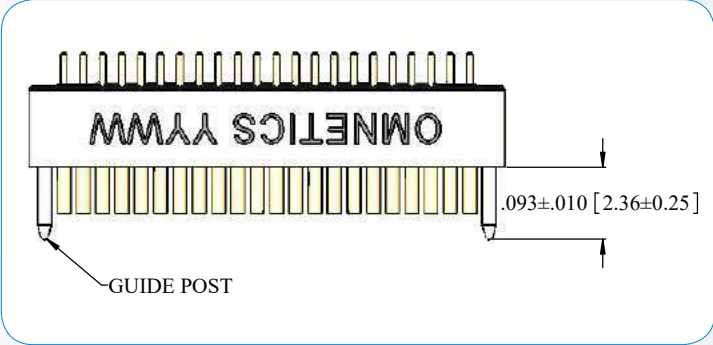
Multiply the number of contacts in one row minus 1 by .025"	_____
If hardware features are within the contact area:	_____
Add .025" for each guide post hole in the same row	_____
Total Length (Dimension B)	_____

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-FF 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":



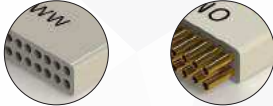


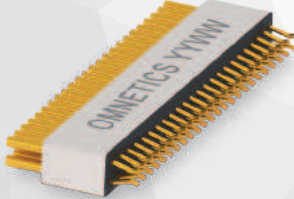
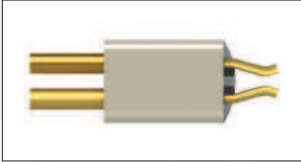
Multiply the total number of contacts in one row minus 1 by .025"	_____
If hardware features are within the contact area:	
Add .025" for each guide post hole in the same row	_____
Total Length (Dimension B)	_____

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

FLEX TAIL (TYPE FF) ORDERING GUIDE

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

EXAMPLES:



NPD-48-FF



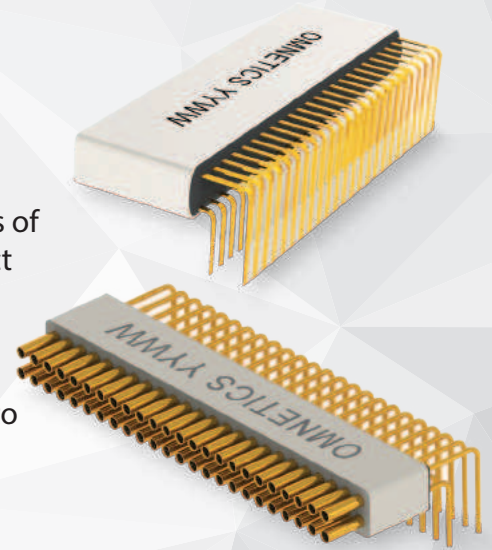
NSD-34-FF-GS-RoHS

Dual Row Nano Strip

HORIZONTAL THRU-HOLE (TYPE H2)

The Dual Row horizontal Thru-Hole Nano Strip connectors have contacts arranged on .025 (.64 mm) centerlines. Thru-Hole tails are arranged in a .025 x .50" grid, allowing space for traces and annular rings. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system, conforming to requirements of MIL-DTL-32139. These durable lightweight connectors are perfect for the most demanding applications. They are available with mounting holes suitable for PCB and flex mounting.

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

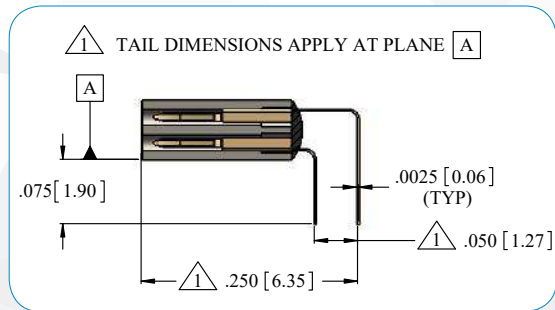
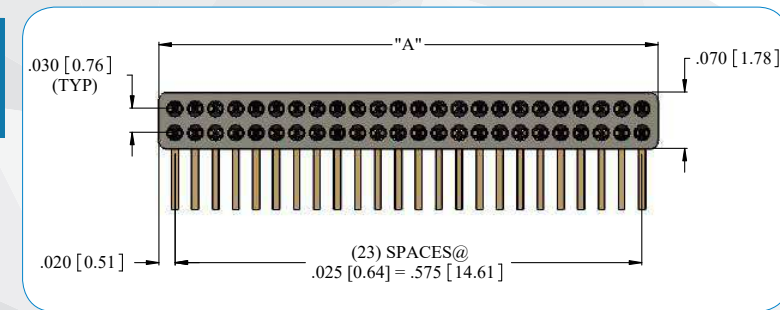
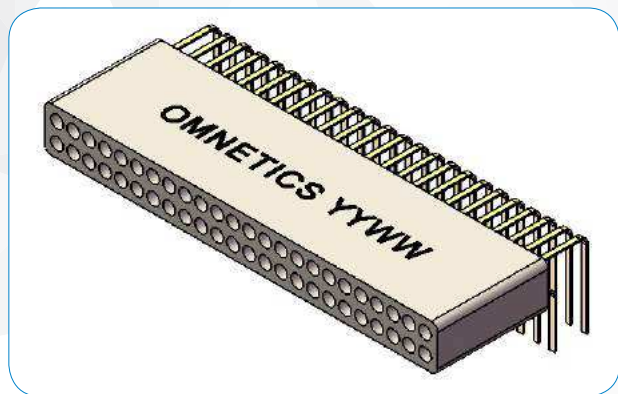
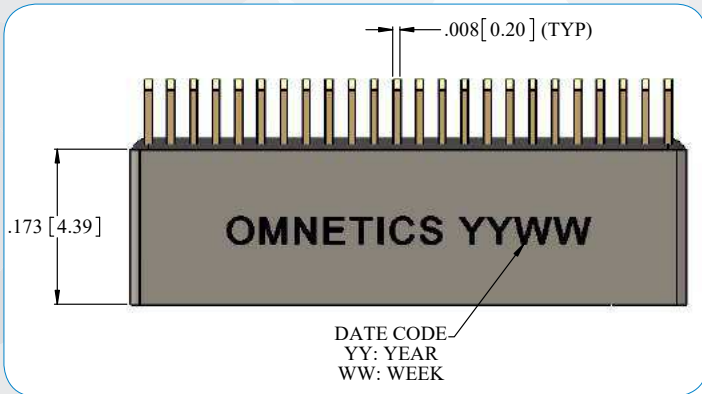
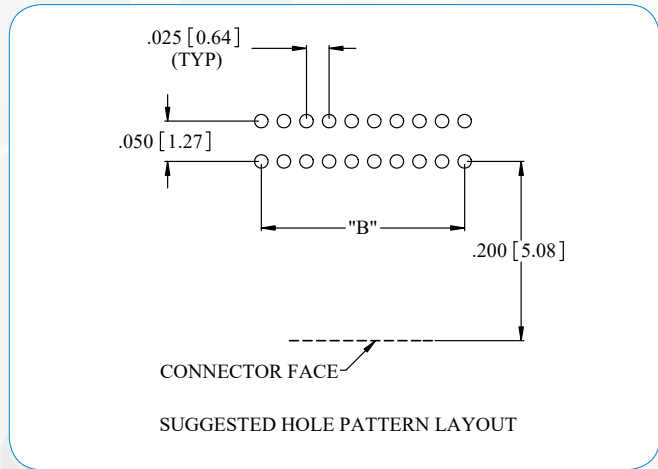
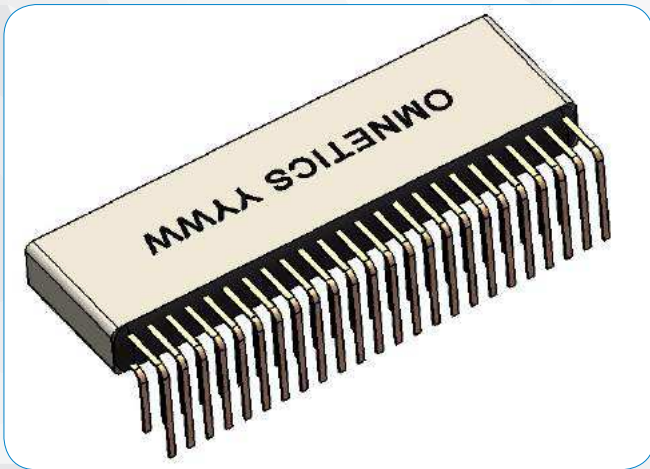
MATERIAL SPECIFICATIONS

- 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

Dual Row Nano Strip

NPD-H2 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":

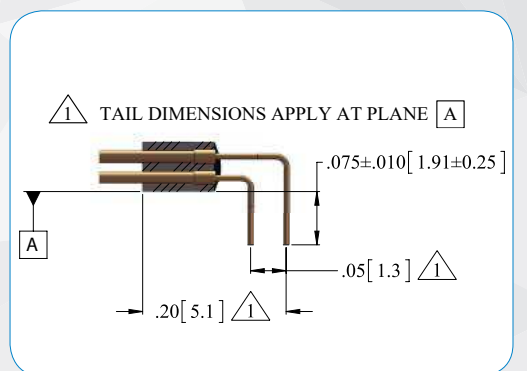
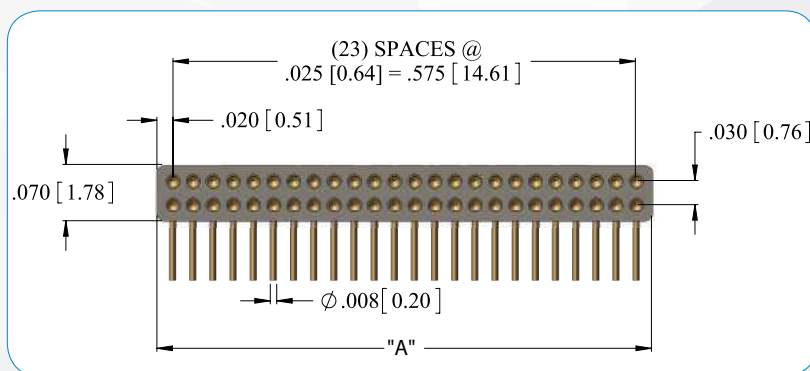
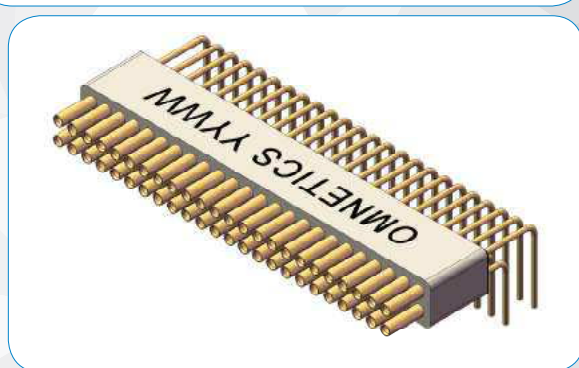
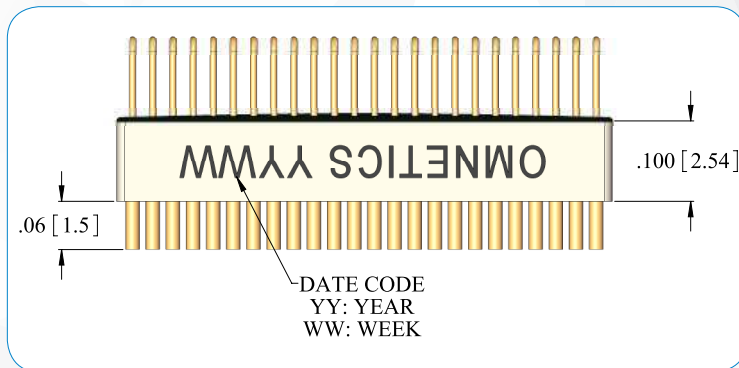
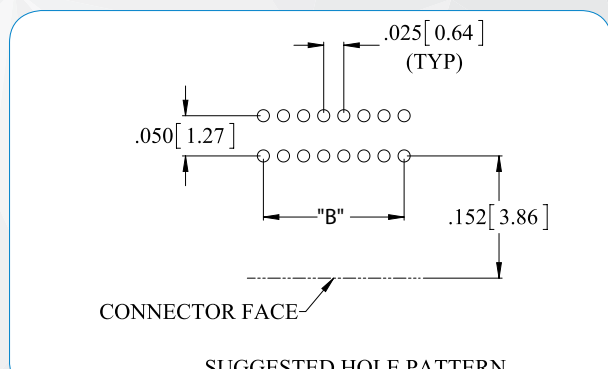
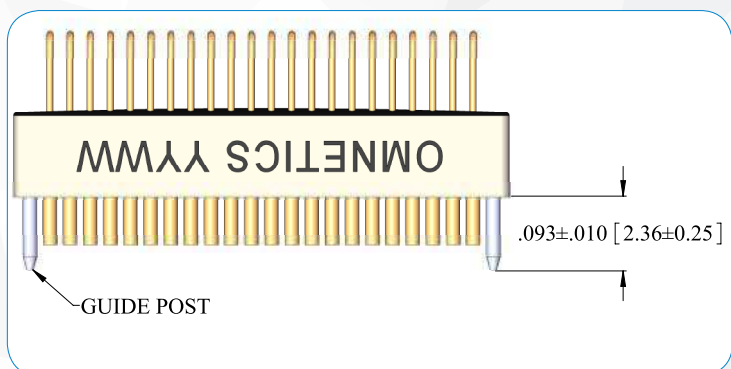
Multiply the number of contacts in one row minus 1 by .025"	_____
If hardware features are within the contact area:	_____
Add .025" for each guide post hole in the same row	_____
Total Length (Dimension B)	_____

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-H2 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

SHORT/LONG ALT. THRU HOLE TAIL (TYPE H2) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
--------	---------------	------------------	----------------

NPD
PIN CONNECTOR



02 - 80

H2



G GUIDE POST/HOLE
GS MULTIPLE GUIDE
POSTS/HOLES

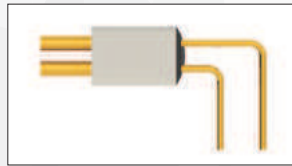
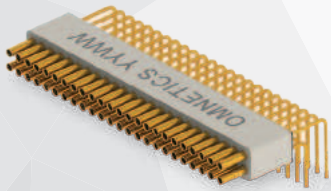


M MOUNTING HOLE



HT HIGH TEMP

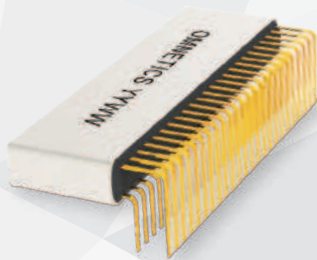
NSD
SOCKET CONNECTOR



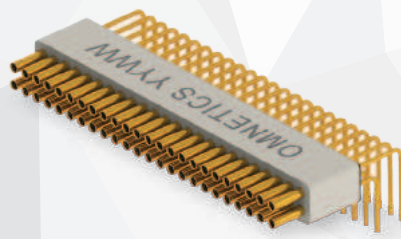
RoHS RoHS COMPLIANT



EXAMPLE:



NPD-48-H2-RoHS



NSD-48-H2-RoHS

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

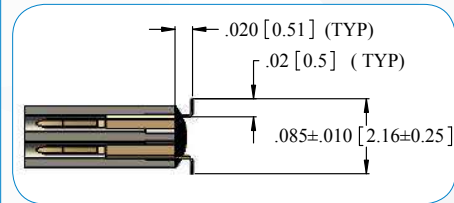
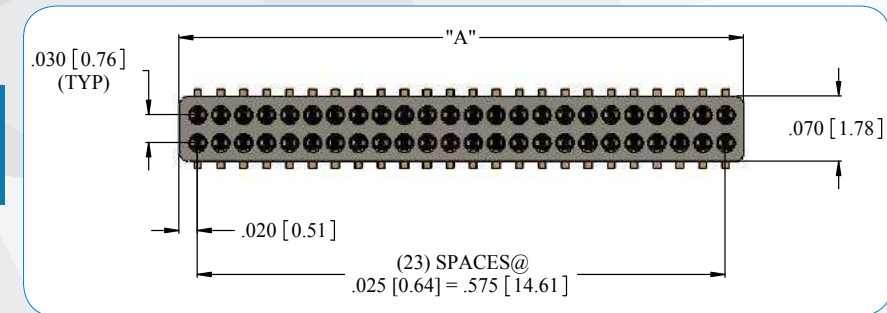
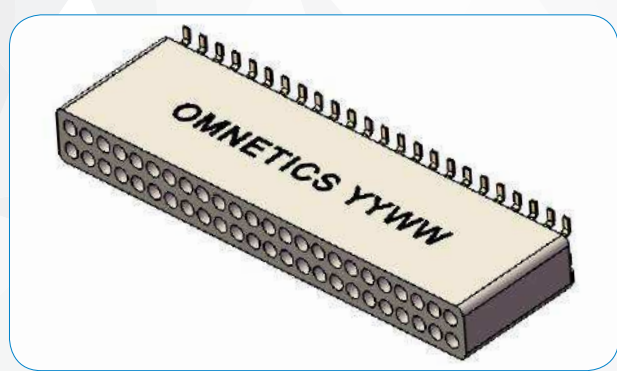
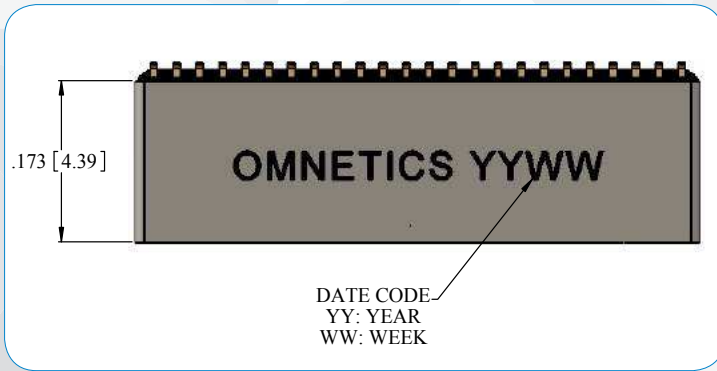
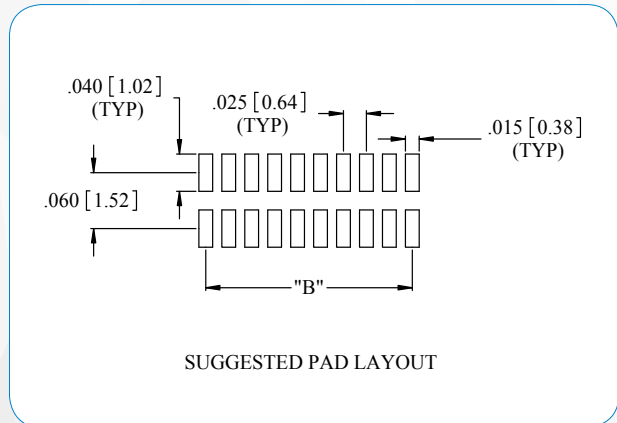
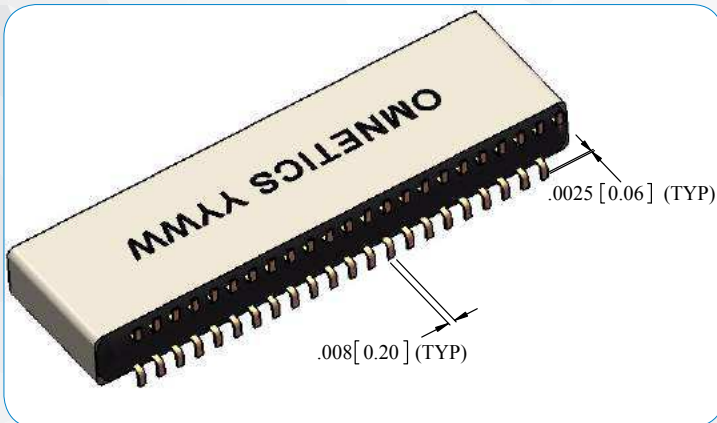
MATERIAL SPECIFICATIONS

- 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

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":

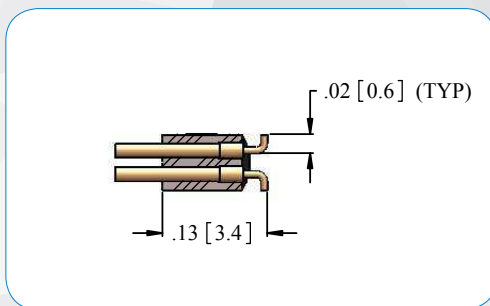
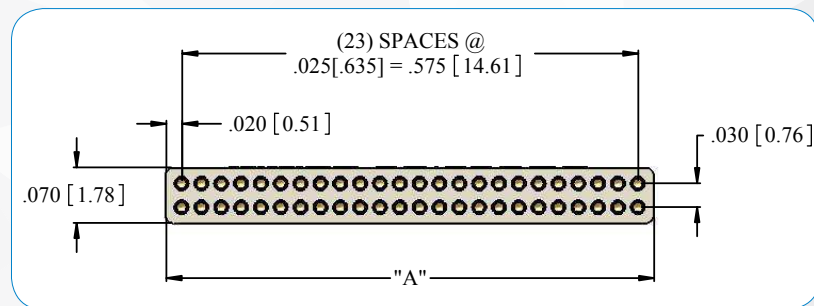
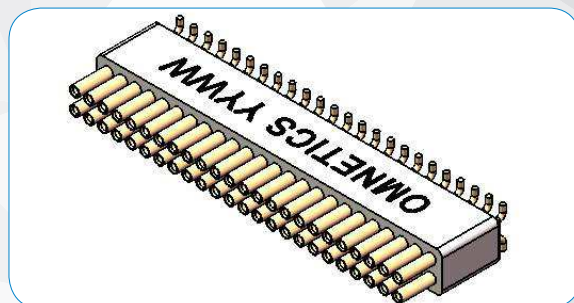
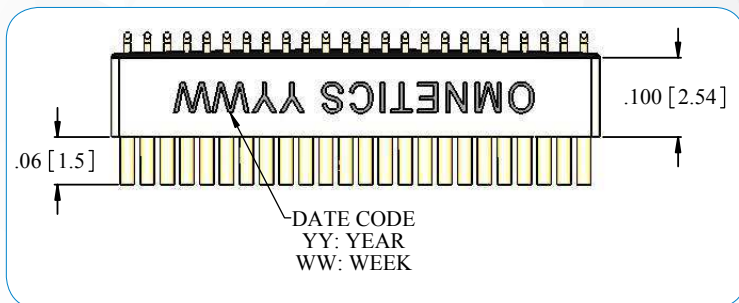
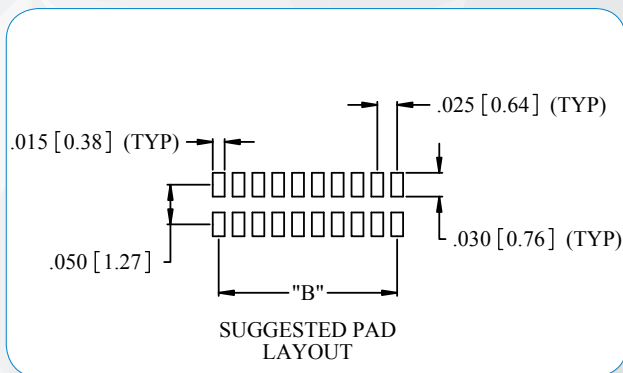
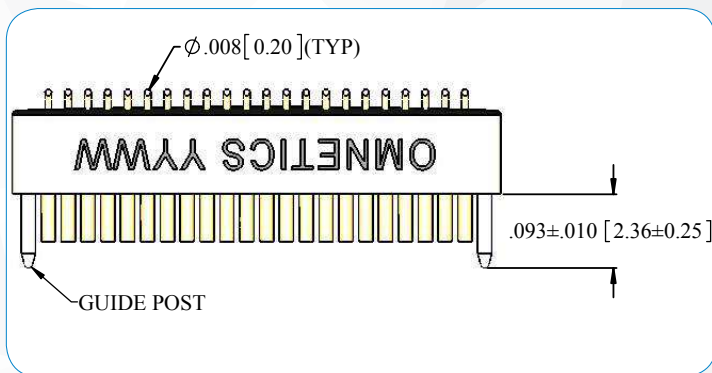
Multiply the number of contacts in one row minus 1 by .025"	_____
If hardware features are within the contact area:	
Add .025" for each guide post hole in the same row	_____
Total Length (Dimension B)	_____

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":





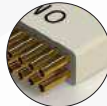



Multiply the total number of contacts in one row minus 1 by .025"	_____
If hardware features are within the contact area:	
Add .025" for each guide post hole in the same row	_____
Total Length (Dimension B)	_____

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) 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

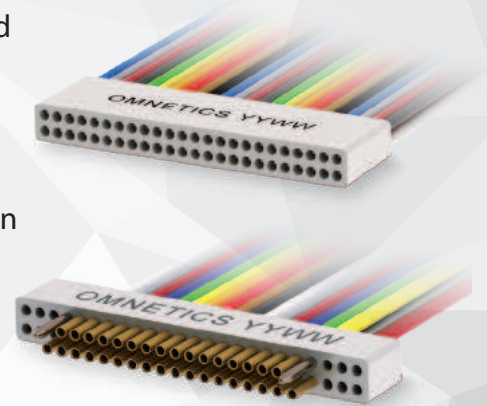


NSD-34-VV-GS

Dual Row Nano Strip

PRE-WIRED/CABLE (TYPE WD/WC)

Pre-wired Dual Row Nano Strip connectors assemblies are crimped using proprietary semiautomated crimping systems. Due to their small size and precision required to make these quality crimps, hand crimping is not an option. Pre-crimped wires and contacts are potted in place further protecting the integrity of the crimp joint. Building these parts to order allows for maximum flexibility in wire type, size and color coding. Commercial Off The Shelf (COTS) versions are also available with 18" of color coded 30 AWG Teflon wire for quick turn around.



These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations, and accept wires 30 AWG to 36 AWG stranded wire.

ELECTRO-MECHANICAL SPECS

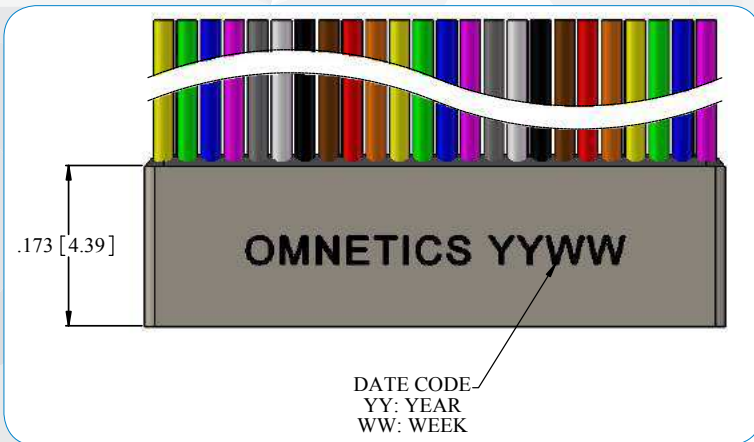
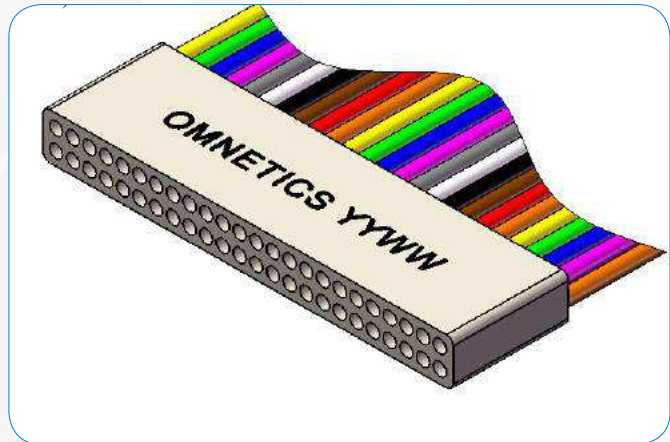
- Durability: _____ 2000 Cycles
- Temperature: _____ -55°C to +125 °C (200 °C w/HTE)
- Current rating: _____ 1 AMP per contact
- Voltage Rating (DWV): _____ 250 VAC RMS Sea Level
- Insulation Resistance: _____ 5,000 Megohms min @ 100 VDC
- Shock: _____ 100 G's discontinuity < 10 nanoseconds
- Vibration: _____ 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

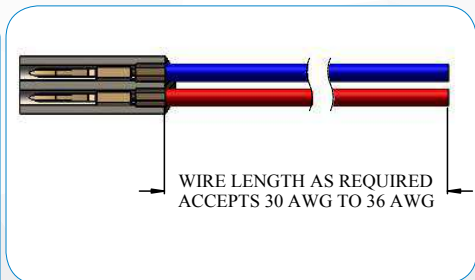
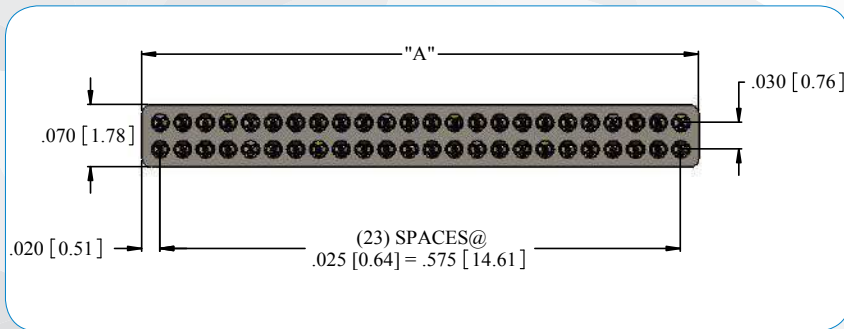
- Standard Wire: _____ 32 AWG, Teflon Insulated per NEMA-HP3
- Insulator: _____ Polyphenylene Sulfide per MIL-M-24519
- Pin: _____ Gold Plate BeCu
- Socket: _____ Gold Plated Copper Alloy
- Encapsulant: _____ Epoxy

Dual Row Nano Strip

NPD-WD/WC LAYOUT



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DIMENSIONS FOR "A"

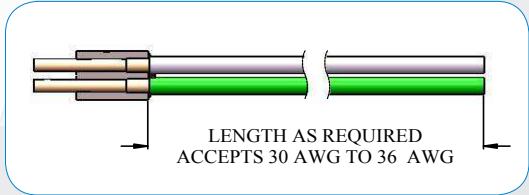
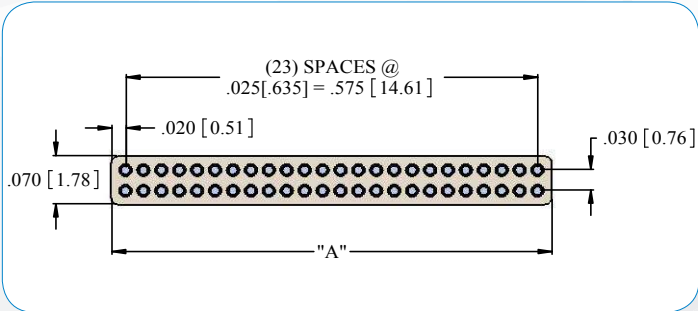
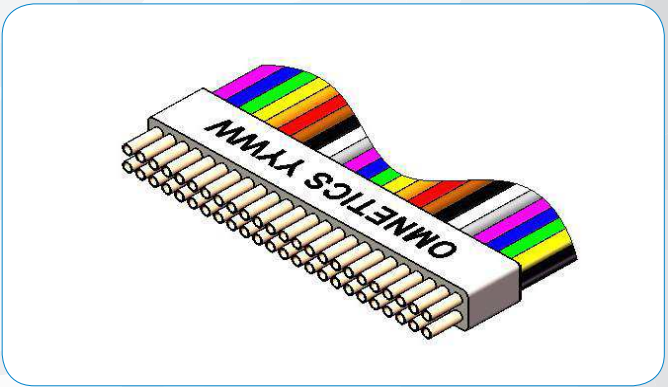
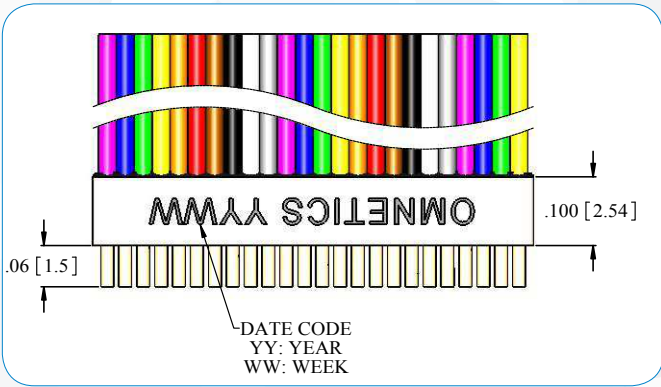
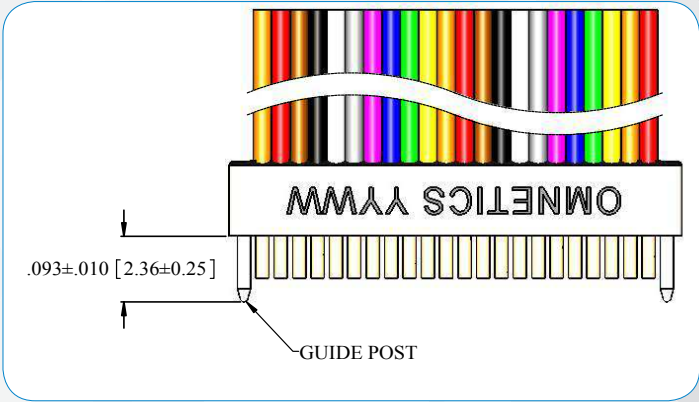
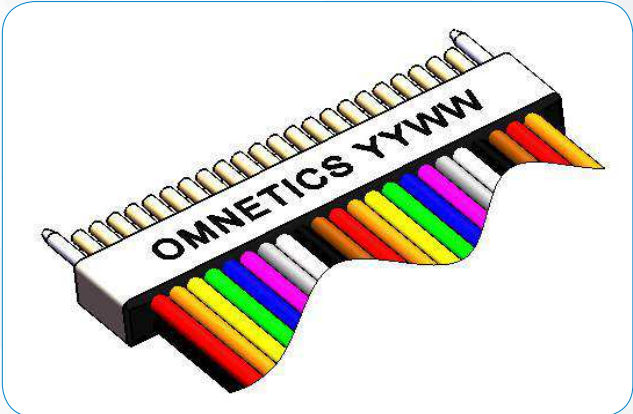
To determine connector length "A":

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	_____
Subtract 1 from the total to get the number of cavity spaces and multiply 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 in [] are in Millimeters unless otherwise noted and are for reference only.

Dual Row Nano Strip

NSD-WD/WC LAYOUT



DIMENSIONS FOR "A"






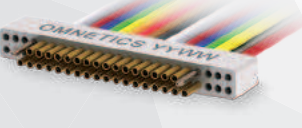

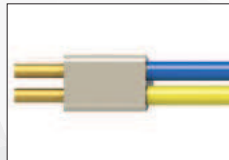

To determine connector length "A":

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	_____
Subtract 1 from the total to get the number of cavity spaces and multiply 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 in [] are in Millimeters unless otherwise noted and are for reference only.

Dual Row Nano Strip

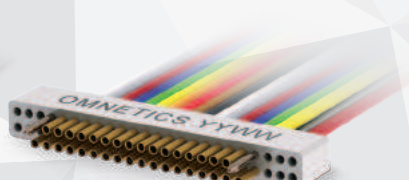
PRE-WIRED/CABLE (TYPE WD/WC) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	WIRE LENGTH	COLOR CODED	COMMON OPTIONS
NPD PIN CONNECTOR 	02 - 80	WD DISCRETE WIRES	18.00 =18.00" STANDARD	C 10 REPEATING COLORS PER MIL-STD 681 	G GUIDE POST/HOLE GS MULTIPLE GUIDE POSTS/HOLES   M MOUNTING HOLE  HT HIGH TEMP
		TW TWISTED WIRES	XX.XX CUSTOM LENGTH i.e. 23.40 =23.40"		
NSD SOCKET CONNECTOR 	02 - 80	WC CABLE	32 AWG Standard/MAX	 	RoHS RoHS COMPLIANT  CS CUSTOMER SUPPLIED MATERIAL
		WX MULTIPLE WIRE TYPES			

EXAMPLES:



NPD-48-WD-18.00-C



NSD-34-WD-18.00-C-GS