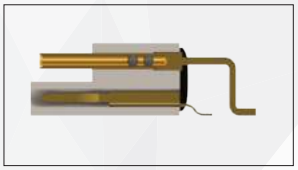
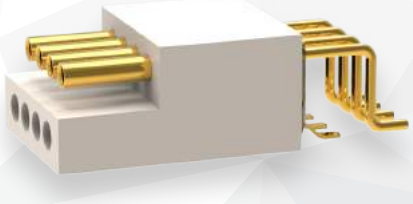
HORIZONTAL SMT (TYPE AA) ORDERING GUIDE

SERIES	# OF CONTACTS	TERMINATION TYPE	COMMON OPTIONS
PZN Polarized Nano Connector	**04 - 24** (EVEN NUMBERS ONLY)	**AA**	**HT** HIGH TEMP **RoHS** RoHS COMPLIANT



EXAMPLES:



PZN-08-AA

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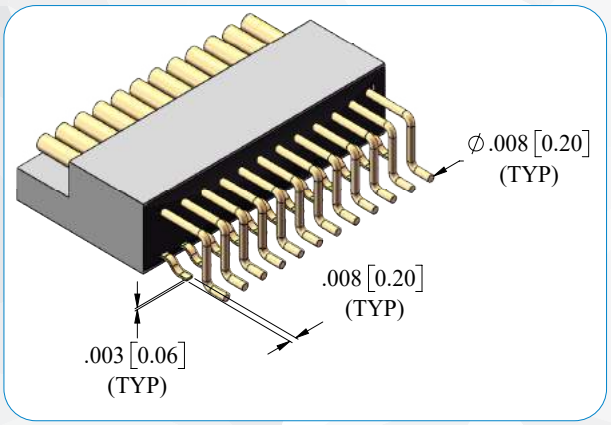
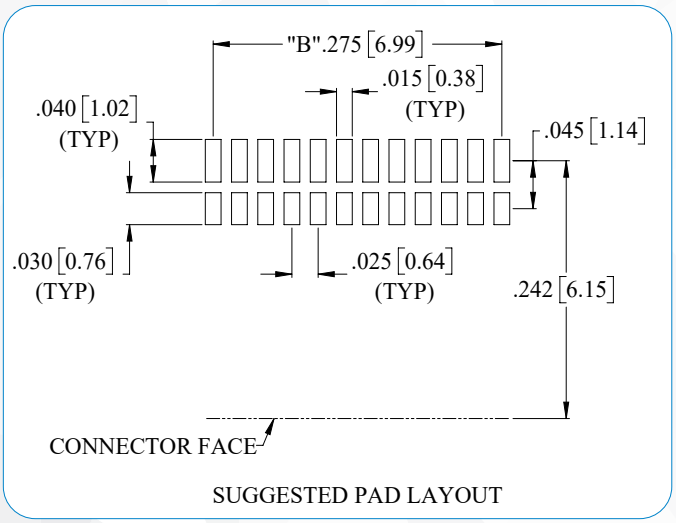
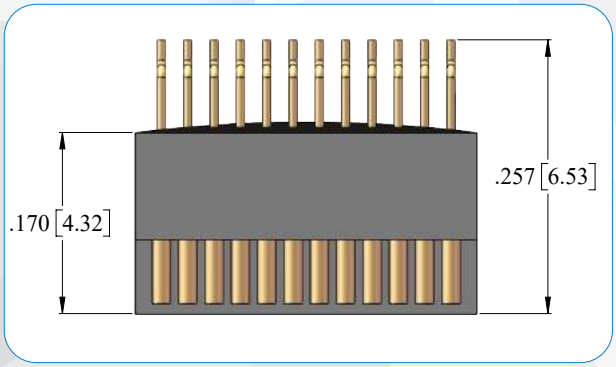
Polarized Nano

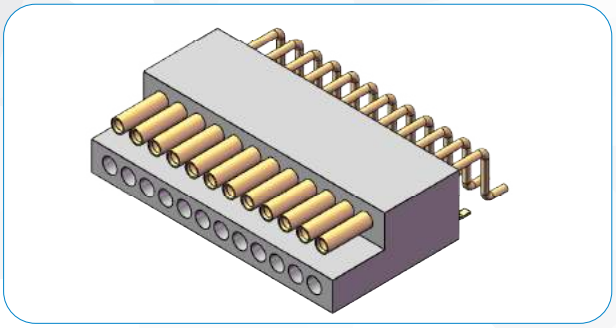
PZN-AA LAYOUT

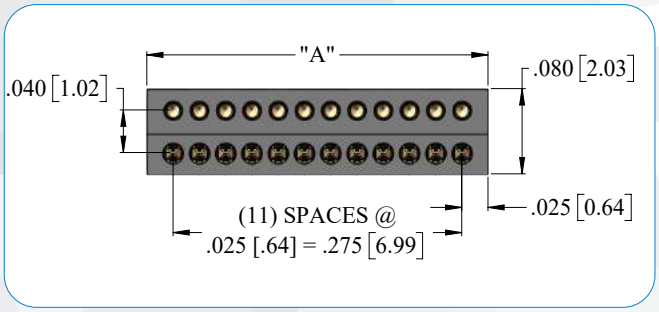


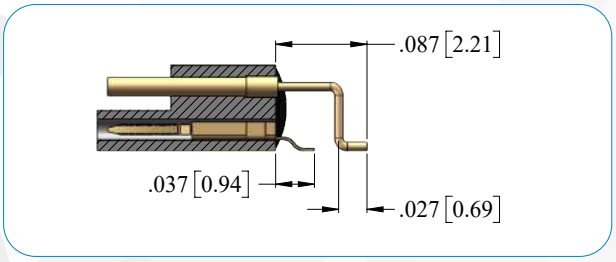


SUGGESTED PAD LAYOUT









DIMENSIONS FOR "A"

To determine connector length "A":

Add the total number of contacts in one row	____
Multiply the number of contact cavities minus 1 by .025"	____
Add fixed end length constant	.050"
Total Length (Dimension A)	____

Notes: Maximum length .325" [8.26].
Maximum number of contact cavities is 24

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":

Multiply the number of contacts in one row minus 1 by .025"	____
Total Length (Dimension B)	____

Notes: Maximum length .275" [6.99].

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

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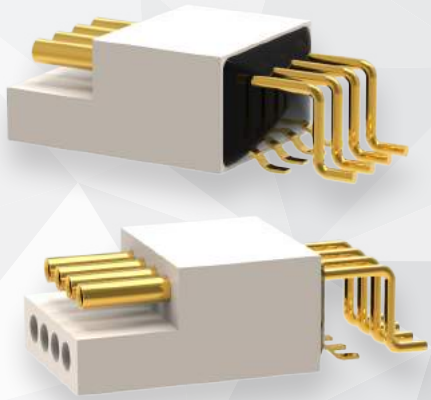
HORIZONTAL SMT (TYPE AA)

The Polarized Nano (PZN) connectors are designed to hold one row of pins and one row of sockets; this configuration polarizes the connector without the extra space needed for guide pins. The Dual Row Horizontal SMT Polarized Nano (PZN) 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 PZN 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.



The PZN connectors are available in standard sizes ranging from 4 to 24 positions.

ELECTRO-MECHANICAL SPECS

- Durability: 200 Cycles
- Temperature: -55ºC to +125 ºC (200 ºC 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

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

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