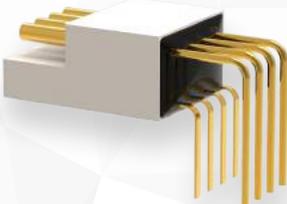
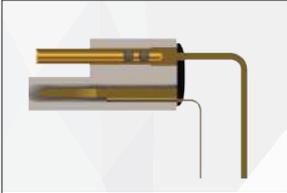
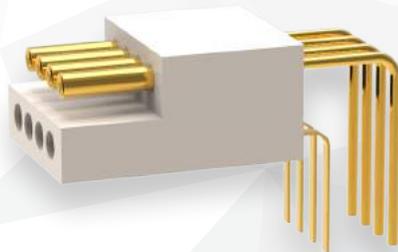


# Polarized Nano

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

| SERIES                                                                            | # OF CONTACTS                            | TERMINATION TYPE                                                                   | COMMON OPTIONS                                                                      |
|-----------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>PZN</b><br>Polarized Nano<br>Connector                                         | <b>04 - 24</b><br>(EVEN NUMBERS<br>ONLY) | <b>H2</b>                                                                          | <b>HT</b> HIGH TEMP                                                                 |
|  |                                          |  | <b>RoHS</b> RoHS COMPLIANT                                                          |
|                                                                                   |                                          |                                                                                    |  |

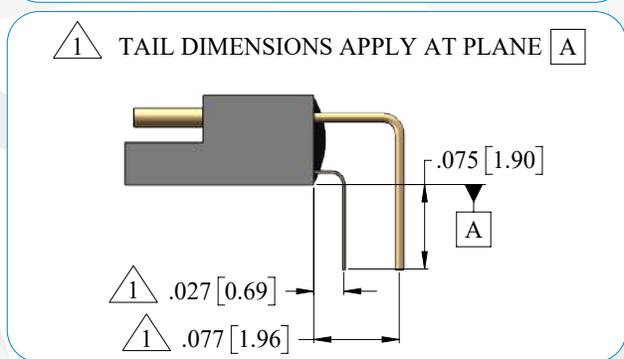
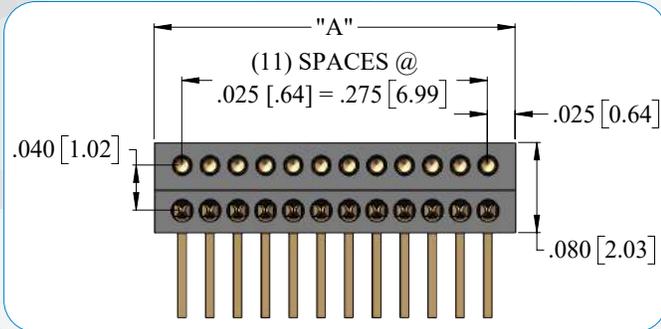
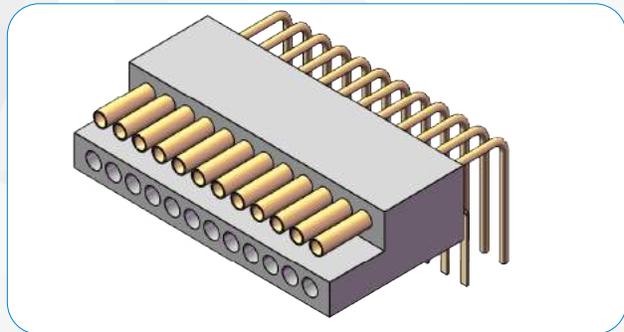
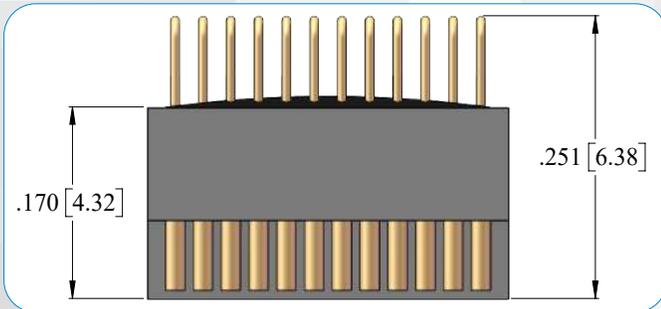
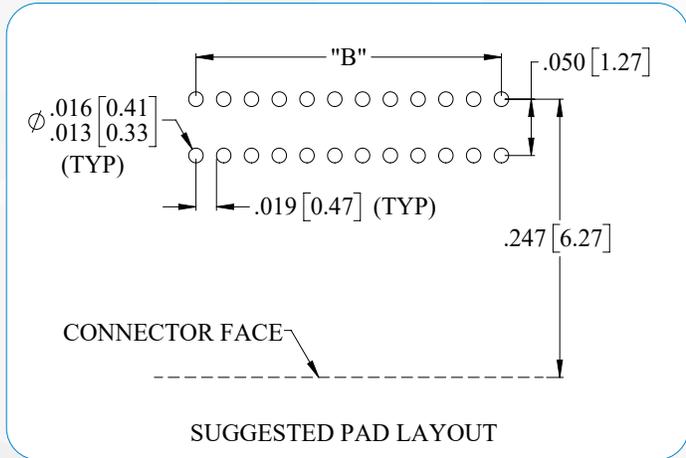
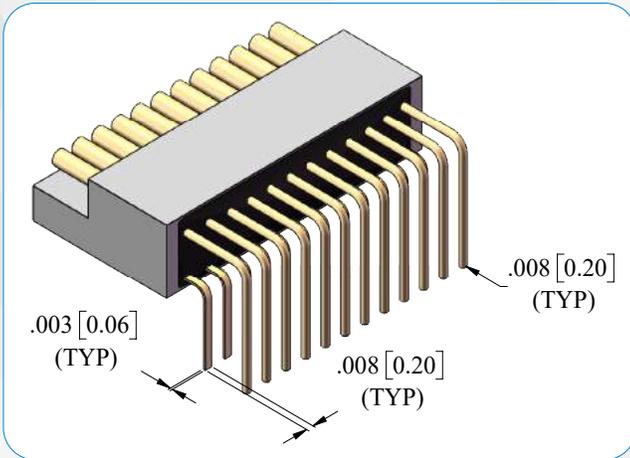
EXAMPLES:



PZN-08-H2

# Polarized Nano

## PZN-H2 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)                                  | _____ |

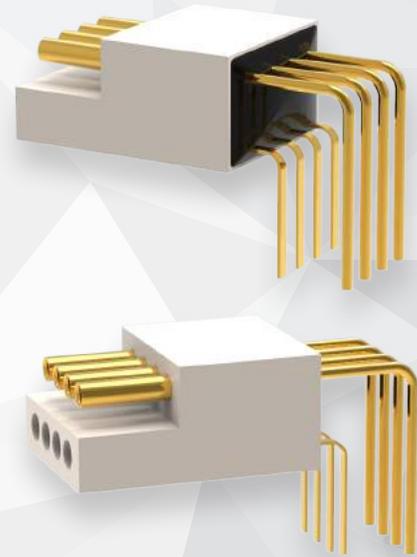
Notes: Maximum length .275" [6.99].

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

## SHORT/LONG ALT. THRU-HOLE (TYPE H2)

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 Horizontal Thru-Hole (type H2) PZN connectors have contacts arranged on .025 (.64 mm) centerlines. The PZN H2 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.

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



### ELECTRO-MECHANICAL SPECS

|                            |                                        |
|----------------------------|----------------------------------------|
| Durability:                | 200 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

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