

OMNETICS

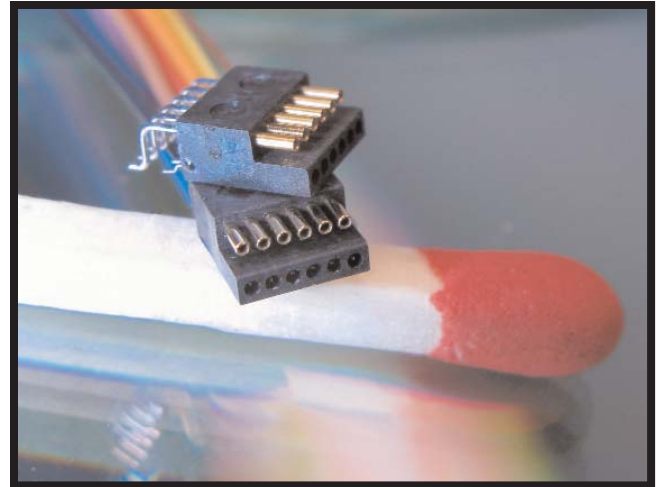
CONNECTOR CORPORATION
The World Leader in Nano Connection

Polarized Nano Series

The Polarized Nano series is the most compact arrangement yet coming out of Omnetics Connector Corporation. The insulators are designed to hold one row of pins and one row of sockets. This configuration effectively polarizes the connector without the additional space required for guide pins.

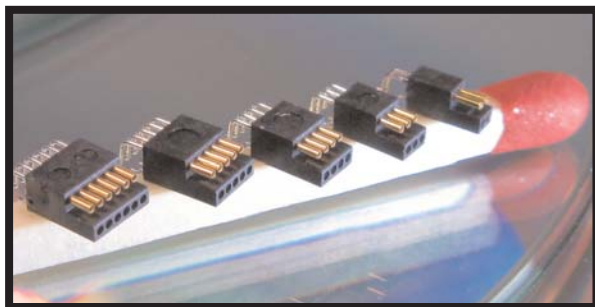
The .025" (.64 mm) spacing and mil quality, gold plated contact system makes this one of the smallest Hi-Rel connectors on the market today. The Polarized nano series is available in 4, 6, 8, 10 and 12 position sizes.

Termination options include: Pre-Wiring, Straight tail, Horizontal SMT, and Vertical SMT.



12 Position Polarized Nano Wired and SMT

Material Specs	Electrical Specs
<p>Insulator: Thermoplastic Polyester, MIL-M-24519, Type GLCP-30F</p> <p>Sockets: Copper Alloy per MIL-DTL-83513</p> <p>Pins: Beryllium Copper per ASTM B194, Alloy C17200</p> <p>Contact Finish: Gold plate per ASTM B488, Type II (Hard Gold), Code C, Class 1.27 (.000050) Thickness = .00005" (1.27 μm)</p>	<p>Current: 1 amp per contact</p> <p>Dielectric Withstanding Voltage: 350 VAC RMS</p> <p>Insulation Resistance: 5000 Meg ohms min @ 100 VDC</p> <p>Contact Resistance: 25 milliohms (25 mv) max @ 1.0 amp</p> <p>Temperature: -55°C to 125°C (200°C with HTE)</p> <p>Vibration: 20 G's, no discontinuity greater than 10 nanoseconds</p> <p>Shock: 100 G's, no discontinuity greater than 10 nanoseconds</p>



4, 6, 8, 10, 12 Position Polarized SMT Nano

Omnetics Connector Corporation

7260 Commerce Circle East

Minneapolis, MN 55432

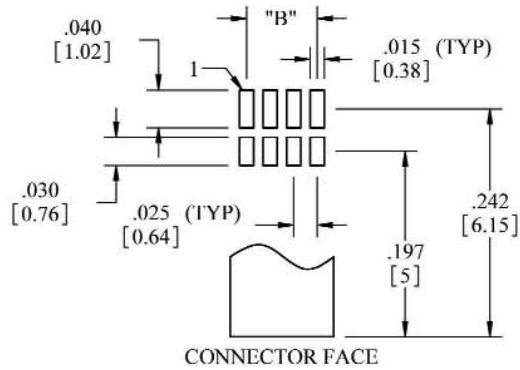
Phone: 763-572-0656

Fax: 763-572-3925

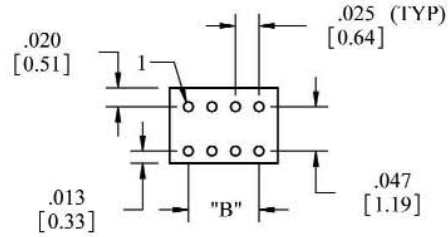
Web Site: www.omnetics.com

PZN SUGGESTED PAD LAYOUTS

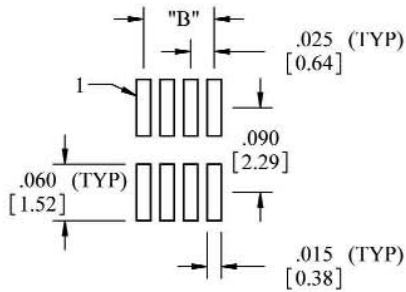
HORIZONTAL SURFACE
MOUNT
TYPE AA



STRAIGHT
THROUGH HOLE
TYPE DD



VERTICAL
MOUNT
TYPE VV



WIRE COLOR
CODING

SOCKET	COLOR
1, 11	BLACK
2, 12	BROWN
3	RED
4	ORANGE
5	YELLOW
6	GREEN
7	BLUE
8	VIOLET
9	GRAY
10	WHITE

Pad Layout Dimension (Dim "B")

	Inches	[mm]
4 Contacts	= <u>.025</u>	= <u>0.64</u>
6 Contacts	= <u>.050</u>	= <u>1.27</u>
8 Contacts	= <u>.075</u>	= <u>1.91</u>
10 Contacts	= <u>.100</u>	= <u>2.54</u>
12 Contacts	= <u>.125</u>	= <u>3.18</u>

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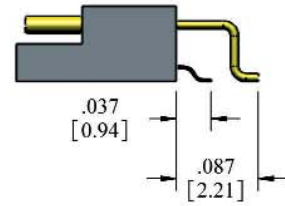
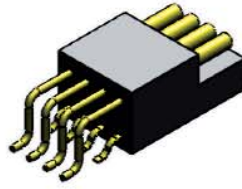
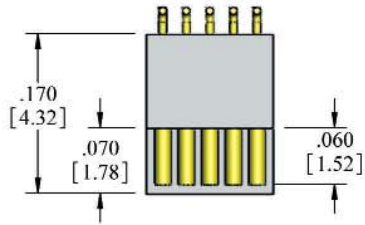
SERIES PZN
POLARIZED NANO
CONNECTOR

CAGE CODE:
61873

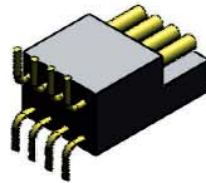
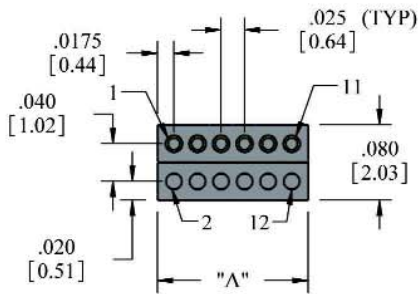
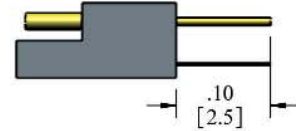
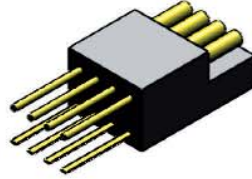
DIMENSIONS IN
INCHES ±.005
[mm] ±.13

CAT-PZN-0830

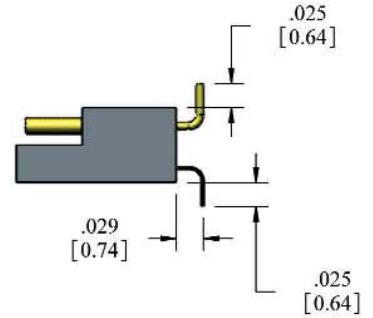
HORIZONTAL SURFACE MOUNT TYPE AA



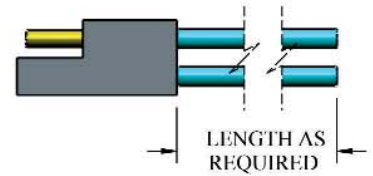
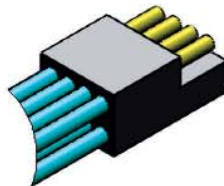
STRAIGHT THROUGH HOLE TYPE DD



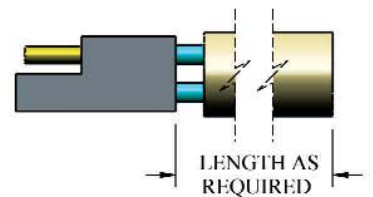
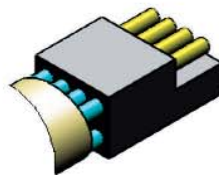
VERTICAL MOUNT TYPE VV



DISCRETE LEADWIRE TYPE WD



CABLE TYPE WC



Connector Length (Dim "A")

	Inches	[mm]
4 Contacts	= .060	= 1.52
6 Contacts	= .085	= 2.16
8 Contacts	= .110	= 2.79
10 Contacts	= .135	= 3.43
12 Contacts	= .160	= 4.06

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SERIES PZN
POLARIZED NANO
CONNECTOR

CAGE CODE:
61873

DIMENSIONS IN
INCHES ±.005
[mm] ±.13

CAT-PZN-0830

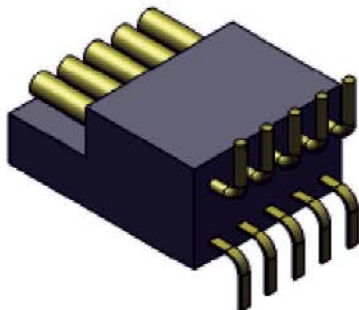
How to order the PZN Series

Series PZN Nomenclature



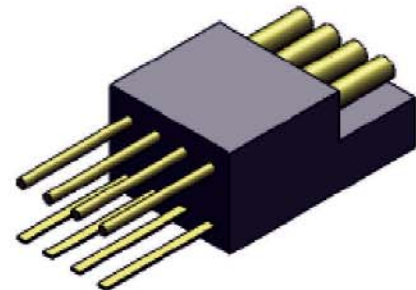
(Each option separated by a hyphen)

<u>Series</u>	<u># Contacts</u>	<u>Termination</u>	<u>Wire Length</u>	<u>Common Options</u>	<u>Wire Gauge</u>
PZN	04 up to 12 Note: Contact #s less than 10, use "0" first ex: 06, 09, etc	<u>PCB Tail Terminations</u> DD = Straight AA = SMT Horizontal VV = SMT Vertical <u>Wire Terminations</u> WC = Cable* WD = Discrete Leadwire XX = Other* * Consult Factory	(Skip if not wire term) Length in Inches... including tenths example: 12.0 X.0 = Mixed Lengths	(List in this order) C = Color Coded Wire ----- COLOR CODED: 1 & 11=Black 2 & 12=Brown 3= Red 4=Orange 5=Yellow 6=Green 7=Blue 8=Violet 9=Gray 10=White ----- BK=All Black BL=All Blue WH=All White ----- RoHS=RoHS Compliant HTE=High Temp Epoxy	PTFE-NEMA HP3 30=30 AWG 32=32 AWG 34=34 AWG SP=OTHER*



PZN-10-VV

Examples



PZN-8-DD