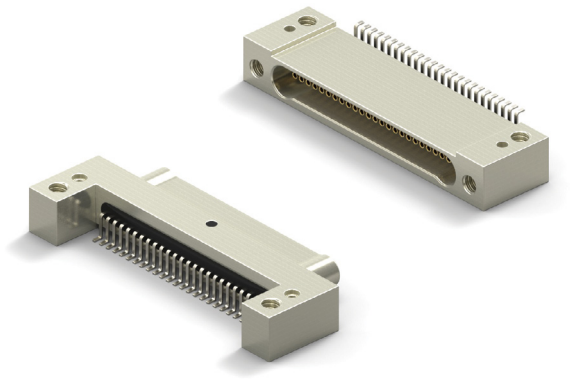
CIRCUIT CONNECTOR RIGHT ANGLE

- Metal Shell Connector
- Surface Mount .025 (Style 28)
- 1 Piece Contact
- Flat Tail Termination
- Operating Temperature -50° C to 200° C
- 9 to 51 Contacts

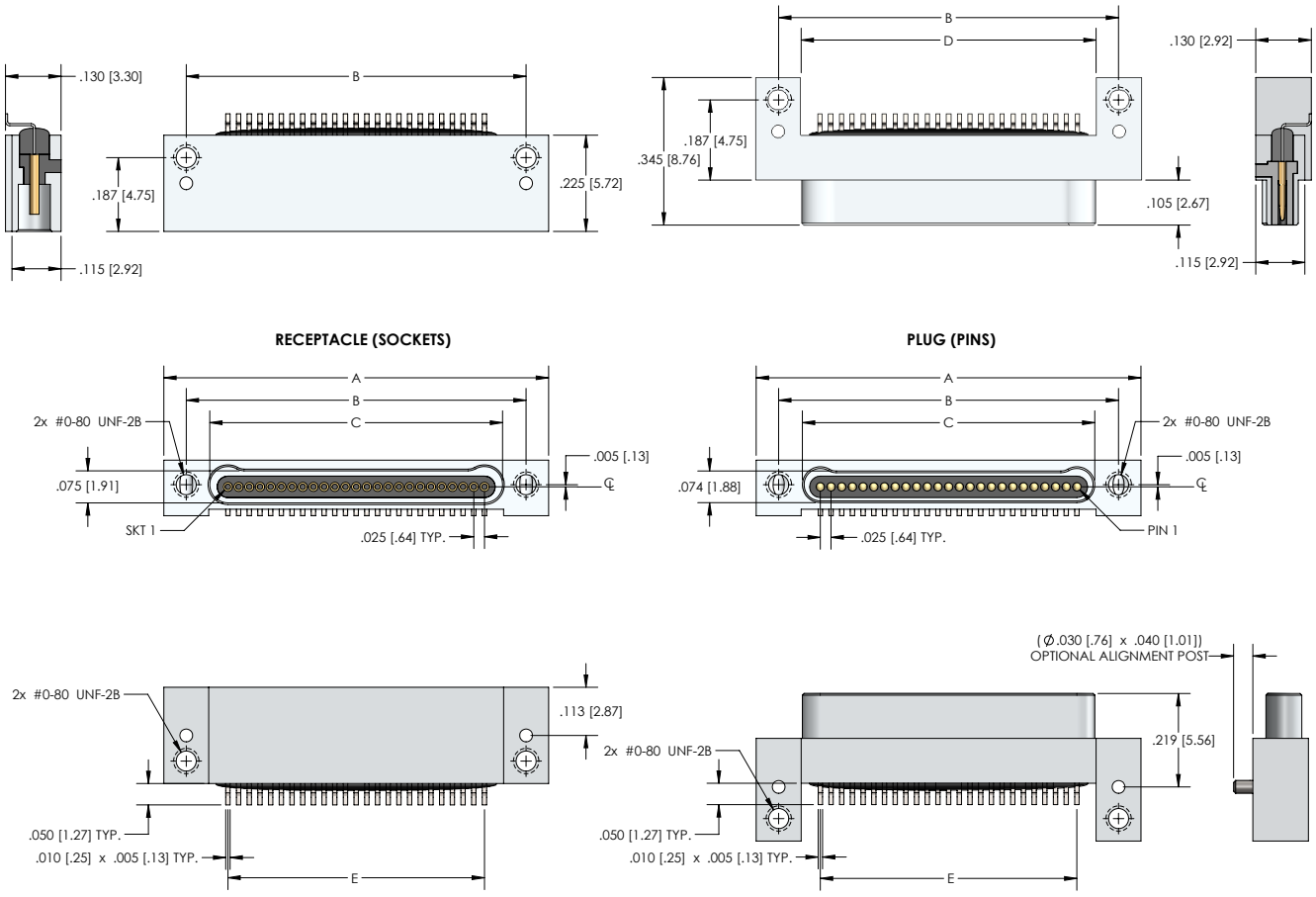


HOW TO ORDER

* Indicates preferred standard ** Consult factory for other plating options

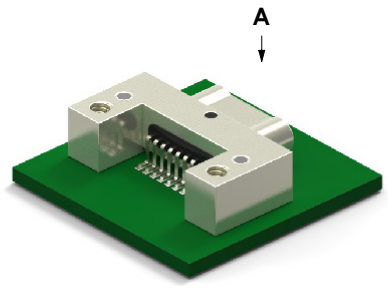
	CN	M	28	L	25	-1	P	Ø7	1	– SØ1		
	Series	Style	Insulator	Contacts	Insulator Type	Contact Gender	Hardware	Lead Finish	Finish**	Temp Range	Mounting Option
CN=Nano	M= Metal Shell	Style=28	L=LCP	Ø9	1= Single Row	P=Male/Pin (Plug Side)	Ø7=Threaded Hole	1= Tin plated (6Ø/4Ø)	Blank= Cadmium	*Blank = 125C	*Blank=Threaded Mounting Holes
				15				2=Gold plated (RoHS)		HT = 2ØØ°C Supplied with Gold Plated Leads	
				21		S=Female/Socket (Receptacle Side)			*SØ1= Nickel		1=Solder Alignment Posts with Threaded Mounting Holes
				25							
				31					SØ3 = Black Anodize		2=Clearance Mounting Holes
				37							
				51					SØ9= Stainless		3=Solder Alignment Posts with Clearance Mounting Holes
											

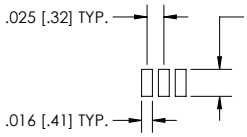
DIMENSIONS



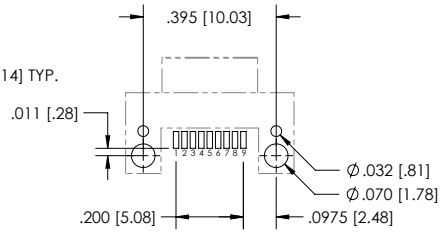
	CNM28 SERIES (SINGLE ROW)				
Size	A	B	Plug C	Receptacle	D
9	.500 [12.70]	.395 [10.03]	.284 [7.21]	.285 [7.24]	.300 [7.62]
15	.650 [16.51]	.545 [13.84]	.434 [11.02]	.435 [11.05]	.450 [11.43]
21	.800 [20.32]	.695 [17.65]	.584 [14.83]	.585 [14.86]	.600 [15.24]
25	.900 [22.86]	.795 [20.19]	.684 [17.37]	.685 [17.40	.700 [17.78]
31	1.050 [26.67]	.945 [24.00]	.834 [21.18]	.835 [21.21]	.850 [21.59]
37	1.200 [30.48]	1.095 [27.81]	.984 [24.99]	.985 [25.02]	1.000 [25.40]
51	1.550 [39.37]	1.445 [36.70]	1.334 [33.88]	1.335 [33.91]	1.350 [34.29]

CIRCUIT CONNECTOR
RIGHT ANGLE MALE

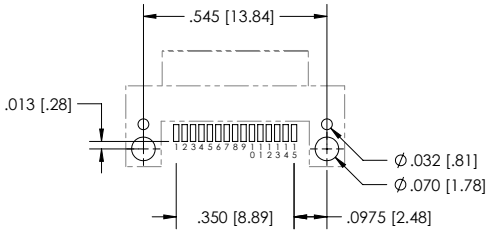




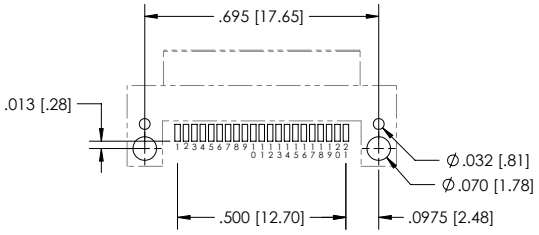
PAD DETAIL



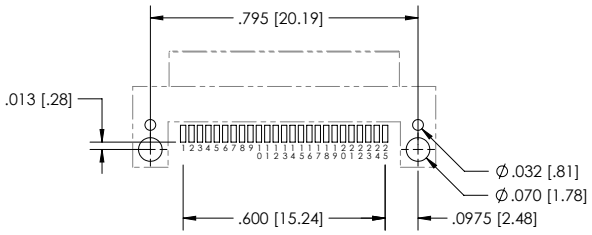
SIZE 9 - VIEW A



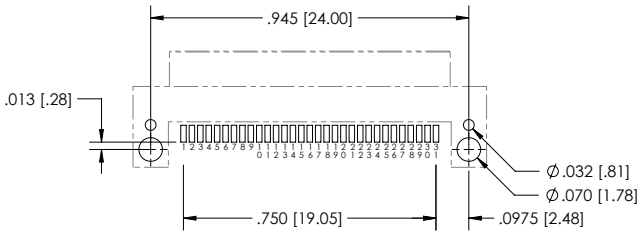
SIZE 15 - VIEW A



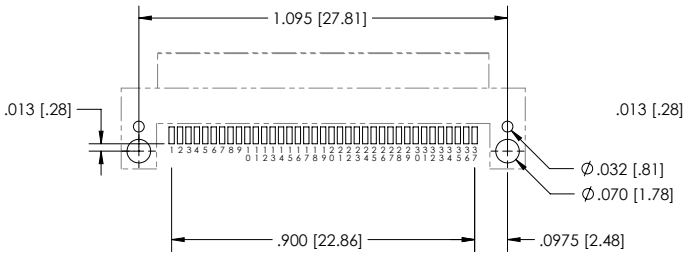
SIZE 21 - VIEW A



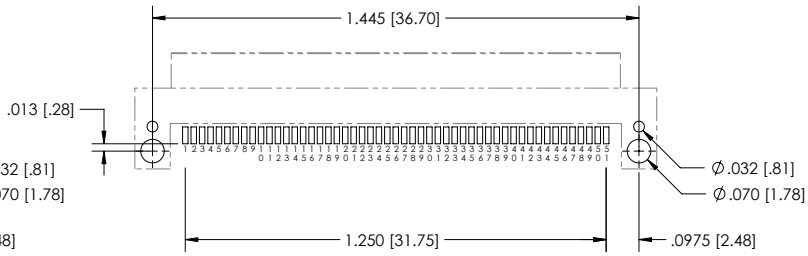
SIZE 25 - VIEW A



SIZE 31 - VIEW A

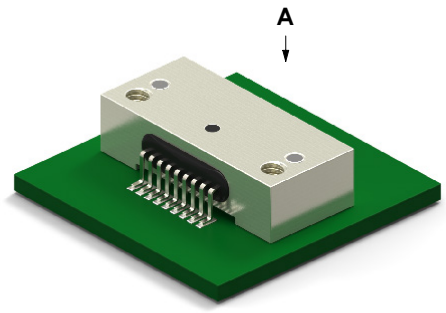


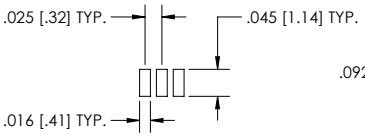
SIZE 37 - VIEW A



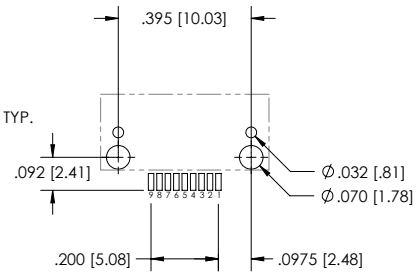
SIZE 51 - VIEW A

CIRCUIT CONNECTOR
RIGHT ANGLE FEMALE

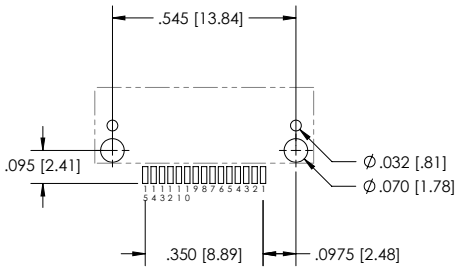




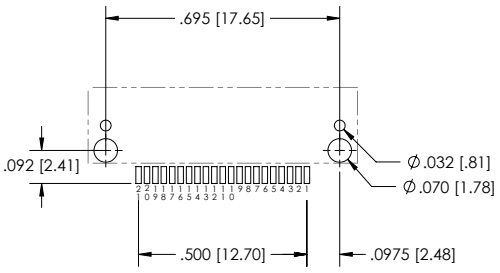
PAD DETAIL



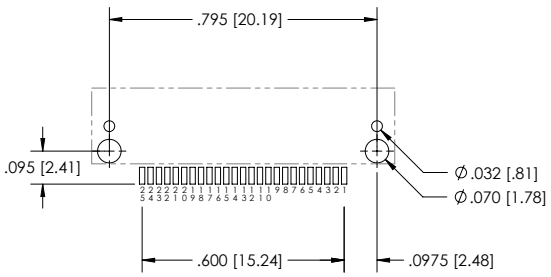
SIZE 9 - VIEW A



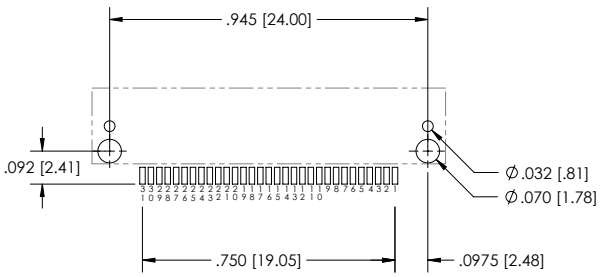
SIZE 15 - VIEW A



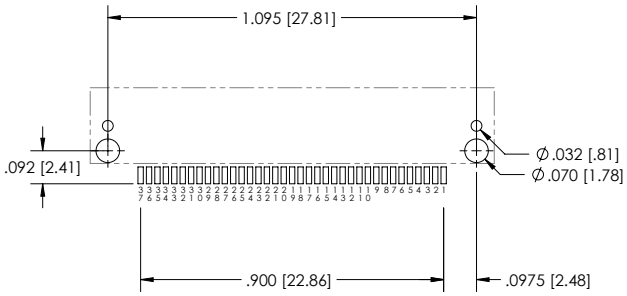
SIZE 21 - VIEW A



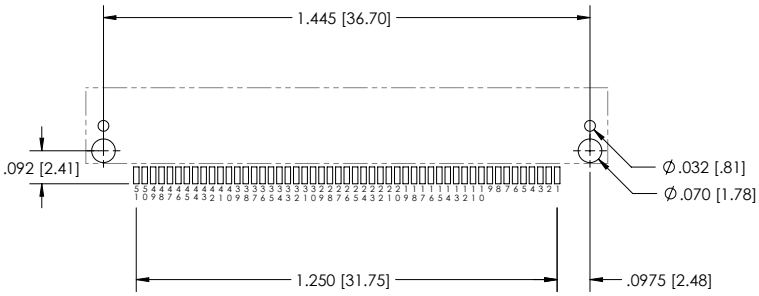
SIZE 25 - VIEW A



SIZE 31 - VIEW A



SIZE 37 - VIEW A



SIZE 51 - VIEW A

NANO-D CIRCUIT RIGHT ANGLE CONNECTOR METAL PERFORMANCE DATA, MATERIALS AND FINISHES

PERFORMANCE DATA

133-E	ELECTRICAL
CONTACT RESISTANCE:	0.033 mΩ max.@ 1.0 A
CURRENT RATING (SIGNAL CONTACTS):	1.0 A max.
DIELECTRIC WITHSTANDING VOLTAGE:	250 VAC at sea level , 100 VAC at 70,000 ft.
INSULATION RESISTANCE:	5,000 MΩ min.

123-M	MECHANICAL
CONTACT ENGAGING FORCE:	5 oz max. (Contact average is 2 oz.)
CONTACT SEPARATING FORCE:	0.4 oz. min.
CONNECTOR MATING FORCE:	7 oz. x number of contacts max.
CONNECTOR UNMATING FORCE:	7 oz. x number of contacts max.
VIBRATION:	No damage or interruption detected (one microsecond sensitivity) EIA-364-28 Condition IV
SHOCK:	No damage or interruption detected (one microsecond sensitivity) EIA-364-28 Condition IV
DURABILITY:	No mechanical or electrical defects after 200 matings.
SALT SPRAY:	No exposure of base metal or loss of performance after 96 hours for both Nickel and Cadmium plating

MATERIALS AND FINISHES

131-M&F	MATERIALS AND FINISHES
Pin Contacts	Pins: BeCu alloy strip per ASTM–B–194
Socket Contacts	Sockets: BeCu per ASTM–B–194
Contact Plating	Gold plate per ASTM B488, or SAE AMS 2422
Metal Shells	Aluminum alloy per SAE-AMS-QQ-A-200/8, Type 6061-T6, with electroless nickel SAE AMS2404, class 3 or 4 Aluminum alloy per SAE-AMS-QQ-A-200/8, Type 6061-T6, with cadmium plating per SAE-AMS-QQ-P-416, Type II, class 1 Aluminum alloy per SAE-AMS-QQ-A-200/8, Type 6061-T6, with black anodize plating per MIL-A-8625, Type III, class 2 Stainless Steel per ASTM A582
Molded Insulator Into Metal Housing/ Lead Organizer	LCP (Liquid Crystal Polymer) GLCP-30F OR PPS PER MIL-M-24519 GST-40F
Alignment Post	Corrosion resistant steel per ASTM A 582/A582 or ASTM A 581/A581M, Passivated per SAE AMS–2700

Ulti-Mate Connector Inc. • Ph. 714.637.7099 • Fx. 714.637.7464 • www.UltimateConnector.com