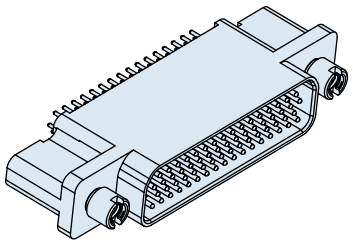
Glenair®

Series 79 Micro-Crimp
Section F: Straight Printed Circuit Board Connectors

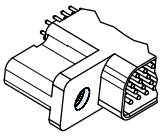
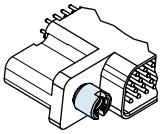
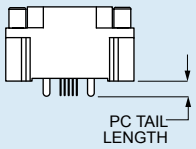
RECEPTACLES WITH PIN CONTACTS, STRAIGHT PCB TERMINATION, 790-043P



790-043P connectors feature thru-hole termination to rigid or flexible circuits. These free-standing vertical mount headers mate with 790-025S cable connectors. 29 contact arrangements include size #16 and #12 power contacts for maximum design flexibility. Contacts are epoxy encapsulated and are non-removable. Fluorosilicone face seal provides watertight sealing when mated. One-piece machined aluminum shell has threaded holes for board attachment.

HOW TO ORDER

Sample Part Number

790-043P	K-9P9	M	P	A
Part Number	**Shell Size - Insert Arr.**	**Shell Finish**	**Hardware Option**	**PC Tail Length**
790-043P Receptacle with Straight PC Tail Pin Contacts for Termination to Backplanes or Flexible Circuits	See Table 1 for Available Insert Arrangements	**M** Electroless Nickel *general purpose applications* **MT** Nickel-PTFE *1000 Hour Grey™* *maximum corrosion protection and durability* *(non-reflective grey)* **ZNU** Zinc-Nickel with Black Chromate *tactical applications* *(non-reflective black)* Additional shell finishes are listed on page C-9.	 **N** No Hardware  **P** Female Jackpost	**A** .125 Inch (3.2 mm.) **B** .250 inch (6.4 mm.) 

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold plated
Insulators	Liquid crystal polymer (LCP)
Interfacial Seal	Flourosilicone rubber
Jackpost	300 series stainless steel
Encapsulant	Epoxy

Dimensions in inches (millimeters) and are subject to change without notice.

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Table 1 Contact Arrangements

Layout	Contact Quantity #23	#16	#12	Face View
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-6P6			6	

CROSS-SECTIONAL VIEW OF 790-043P

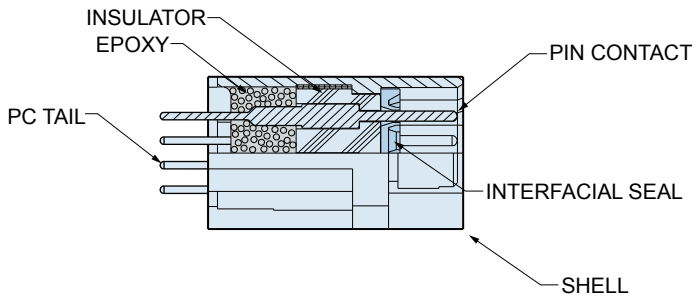
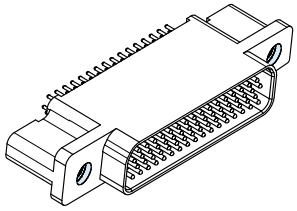


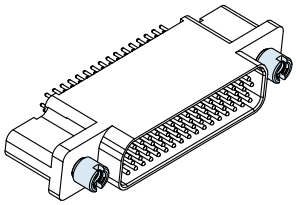
TABLE 2 HARDWARE OPTION



N

No Mating Hardware

Connector is supplied with threaded holes. Shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).



P

Jackposts

Connector is supplied with non-removable stainless steel jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.

F

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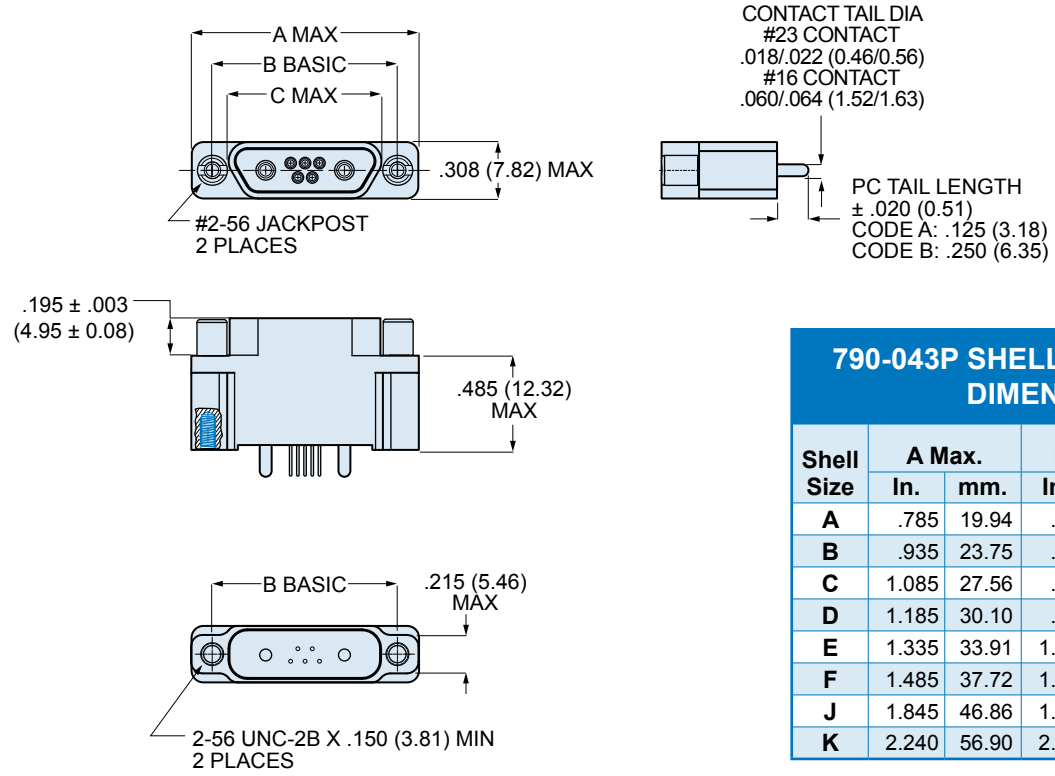
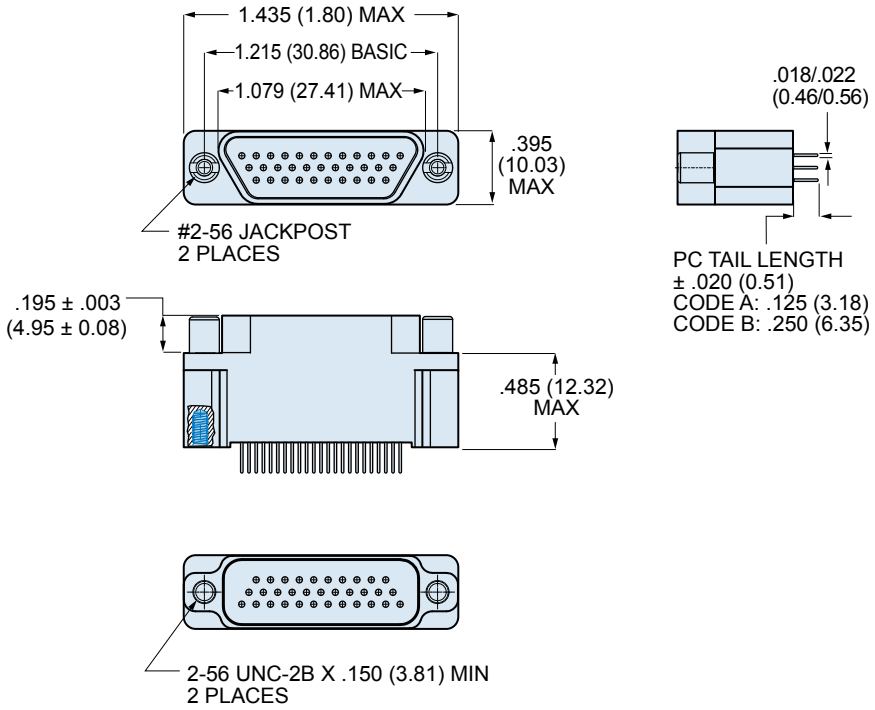
790-043P SHELL SIZE A-G, J & K DIMENSIONS



790-043P SHELL SIZE A-K, J & K DIMENSIONS

Shell Size	A Max.		B Basic		C Max.	
	In.	mm.	In .	mm.	In.	mm.
A	.785	19.94	.565	14.35	.400	10.16
B	.935	23.75	.715	18.16	.551	14.00
C	1.085	27.56	.865	21.97	.701	17.81
D	1.185	30.10	.965	24.51	.801	20.35
E	1.335	33.91	1.115	28.32	.951	24.16
F	1.485	37.72	1.265	32.13	1.101	27.96
J	1.845	46.86	1.615	41.02	1.460	37.08
K	2.240	56.90	2.015	51.18	1.860	47.24

790-043P SHELL SIZE G DIMENSIONS



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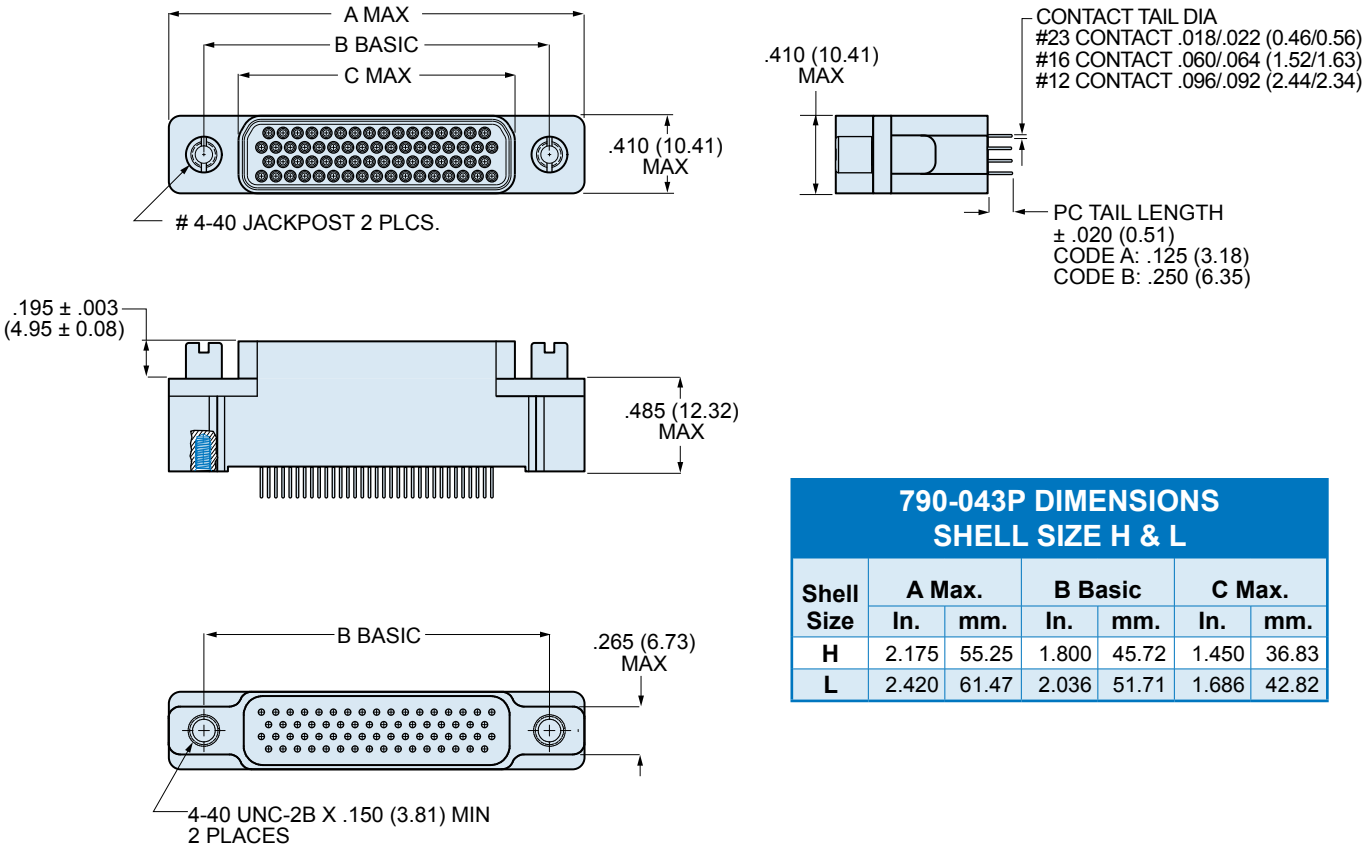
790-043P SHELL SIZE H & L DIMENSIONS



790-043P DIMENSIONS SHELL SIZE H & L

Shell Size	A Max.		B Basic		C Max.	
	In.	mm.	In.	mm.	In.	mm.
H	2.175	55.25	1.800	45.72	1.450	36.83
L	2.420	61.47	2.036	51.71	1.686	42.82

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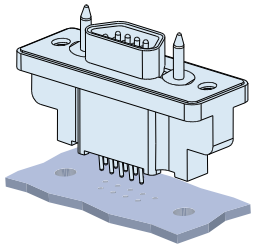
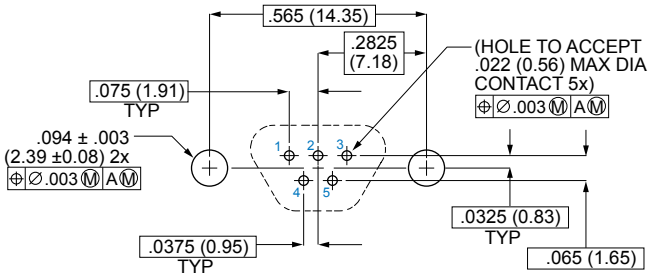
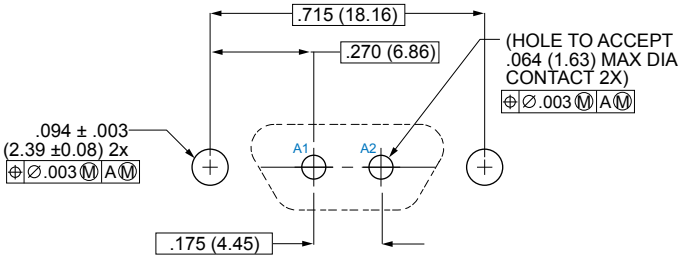
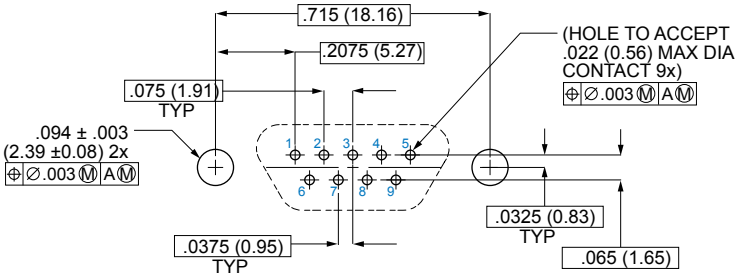
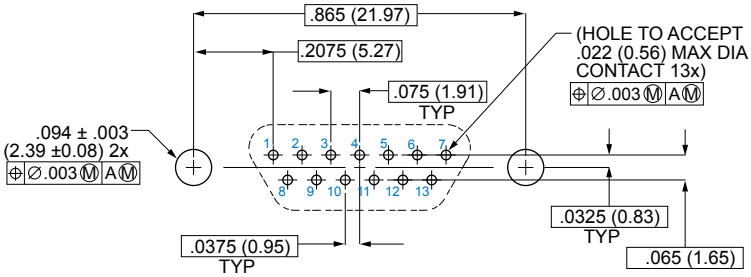
PCB Hole Patterns for 790-028P and 790-043P Receptacles



This section contains printed circuit board footprints for vertical mounted Series 79 receptacles. The contact identification numbers are shown for the connector mounting side of the PC board. Contact tails are gold over nickel plated.

PC Tail Diameter		
Contact Size	Ø Diameter In.	mm.
#23	.018-.022	0.46-0.56
#16	.060-.064	1.52-1.63
#12	.092-.096	2.34-2.44

790-028P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
A-5	
B-2P2	
B-9	
C-13	

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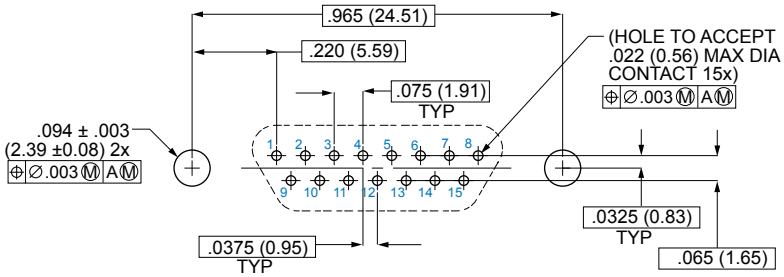
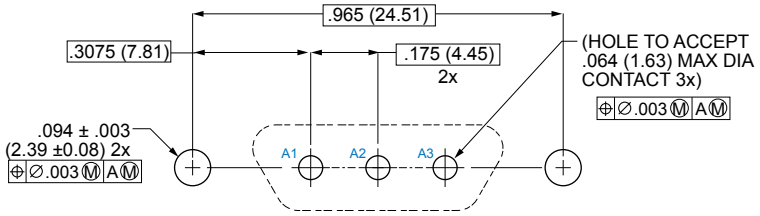
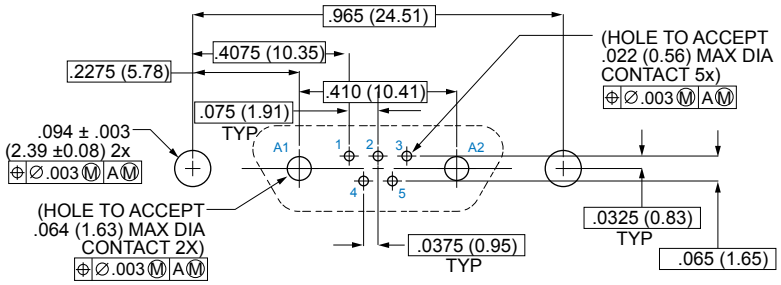
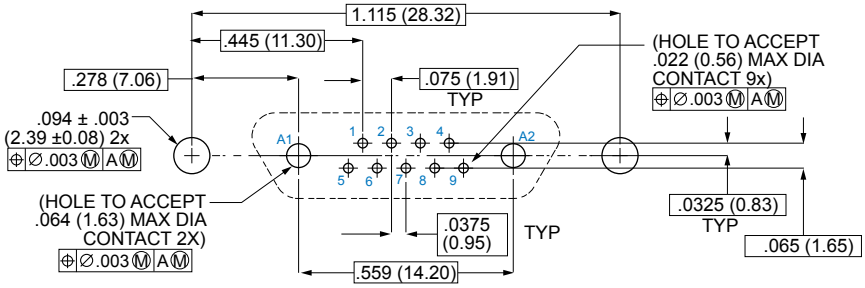
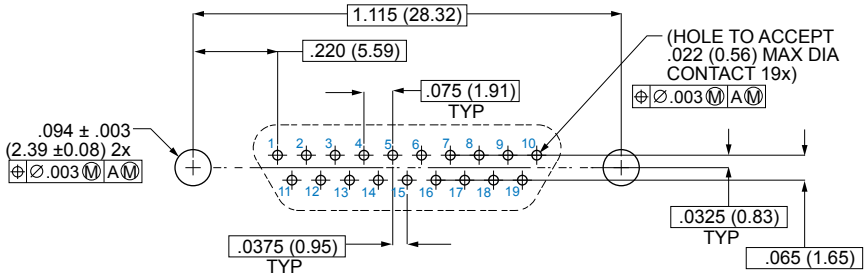
790-028P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
D-15	
D-3P3	
D-7P2	
E-11P2	
E-19	

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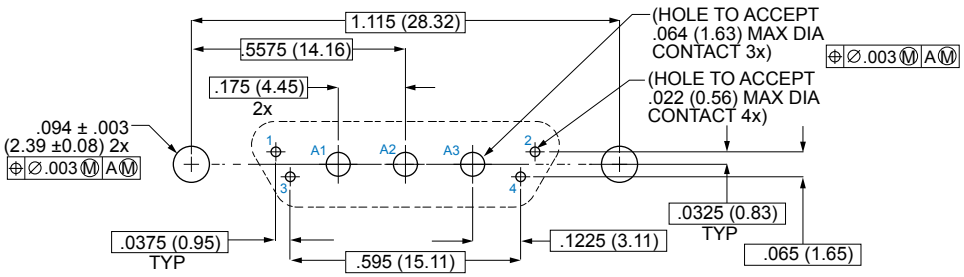
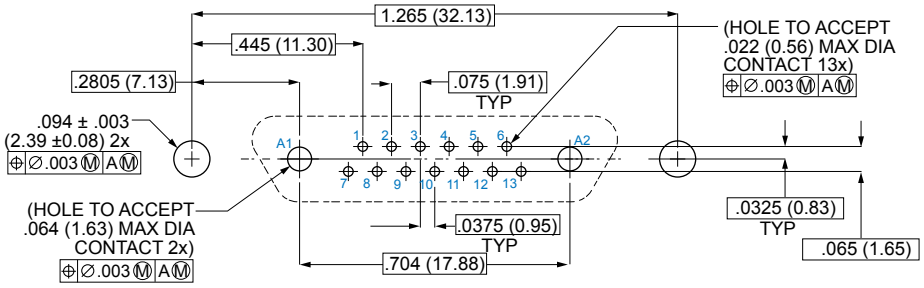
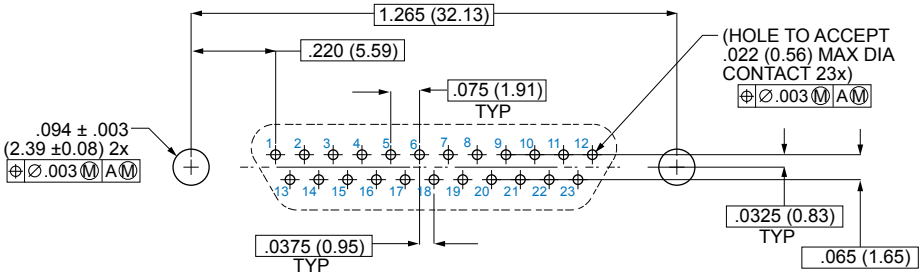
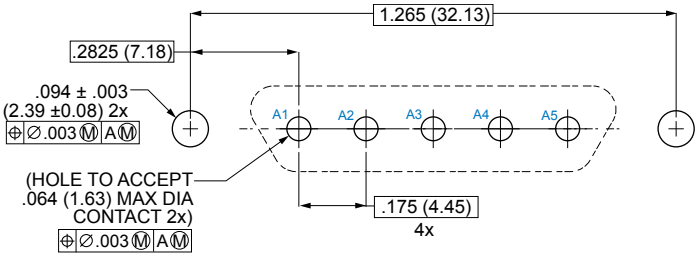
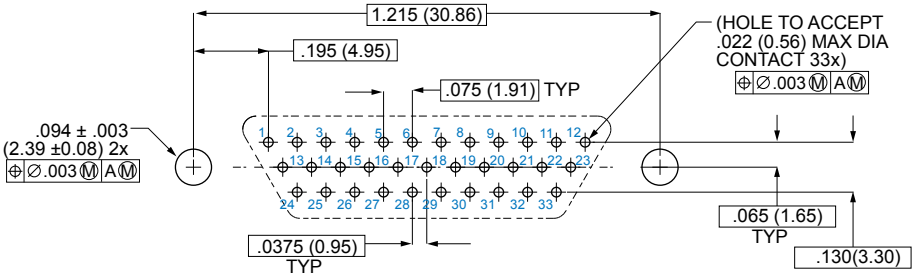
790-028P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
E-7P3	
F-15P2	
F-23	
F-5P5	
G-33	

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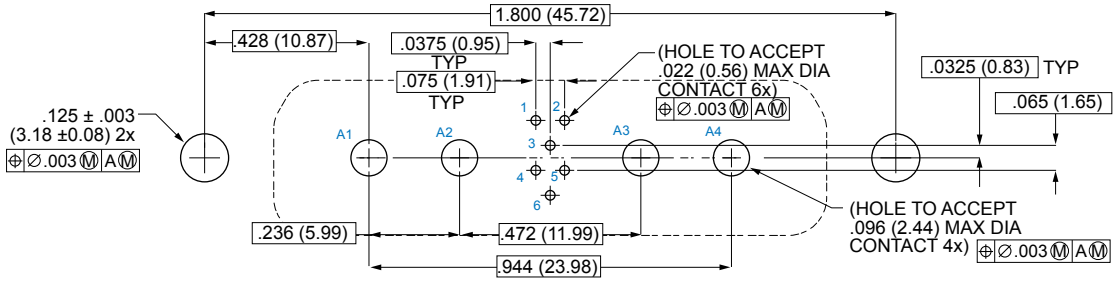
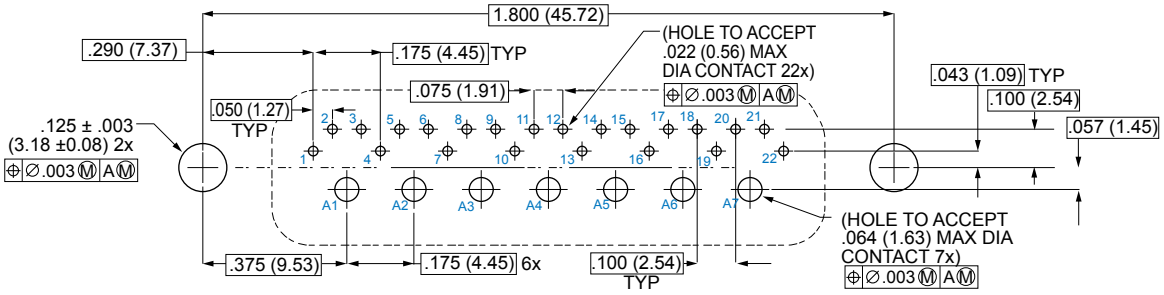
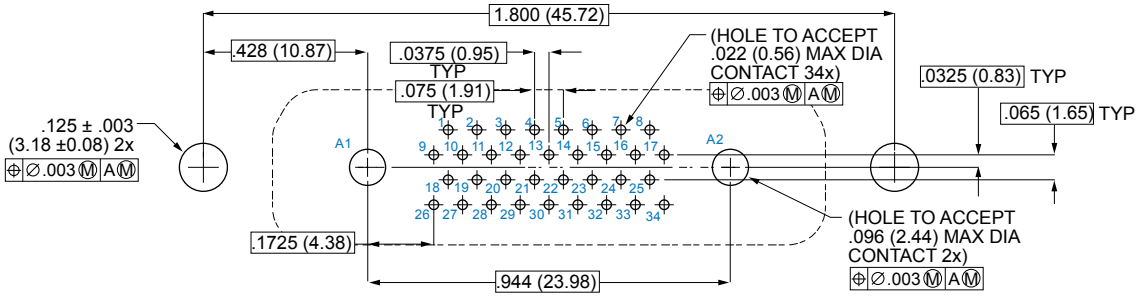
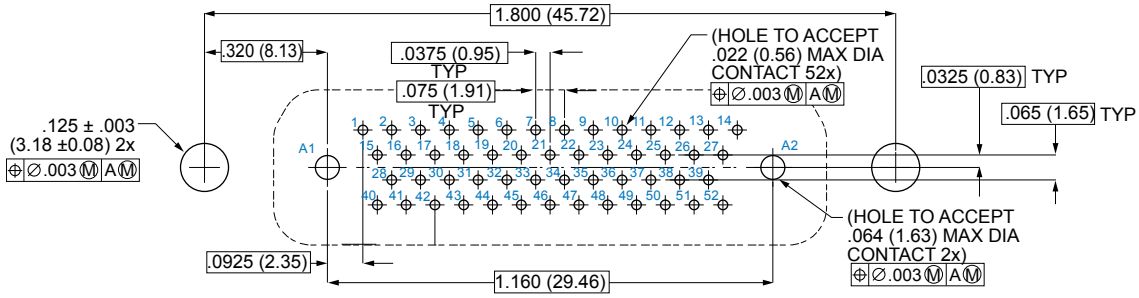
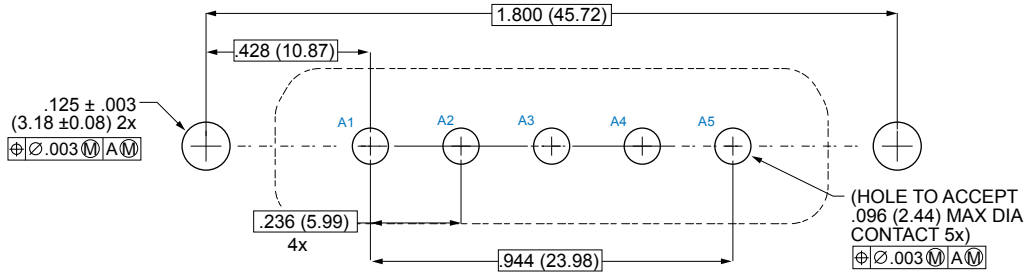
790-028P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
H-10P4	
H-29P7	
H-36P2	
H-54P2	
H-5P5	

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790-028P PRINTED CIRCUIT BOARD PATTERNS

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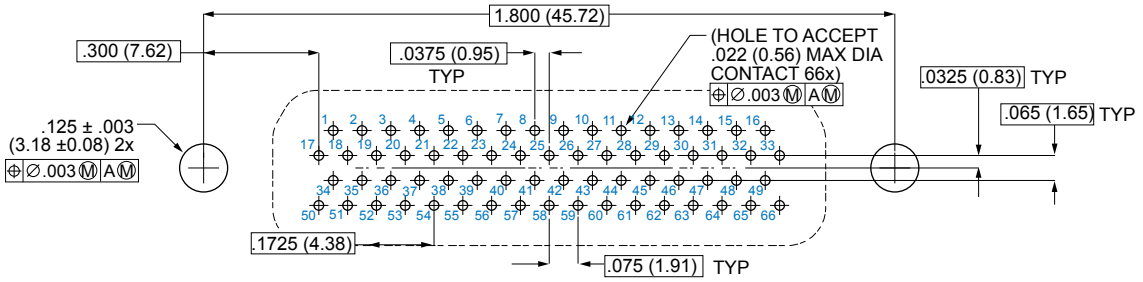
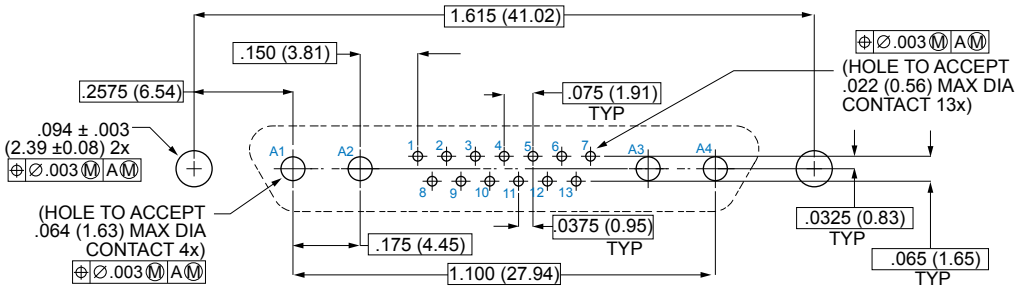
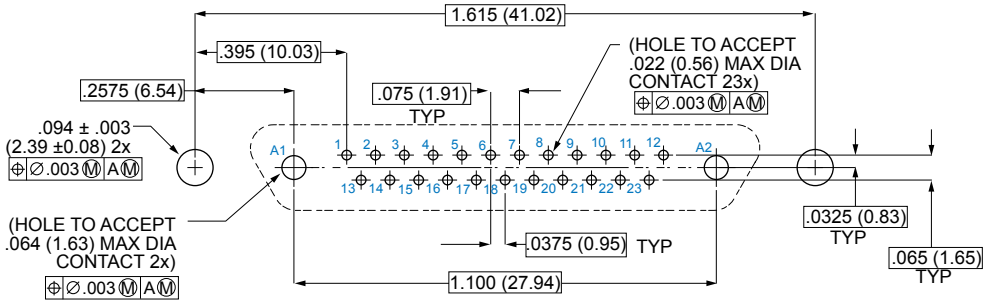
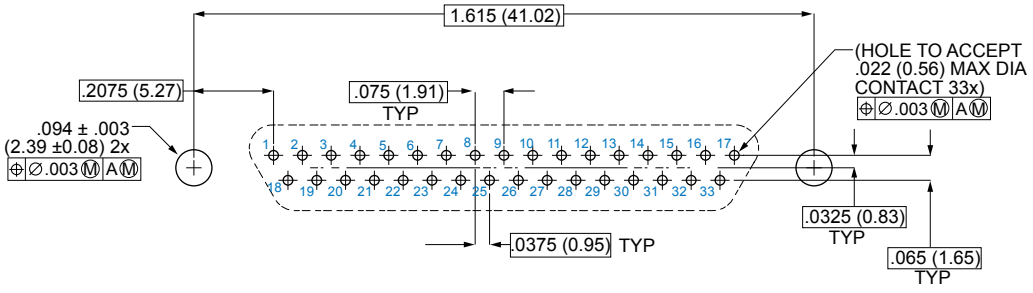
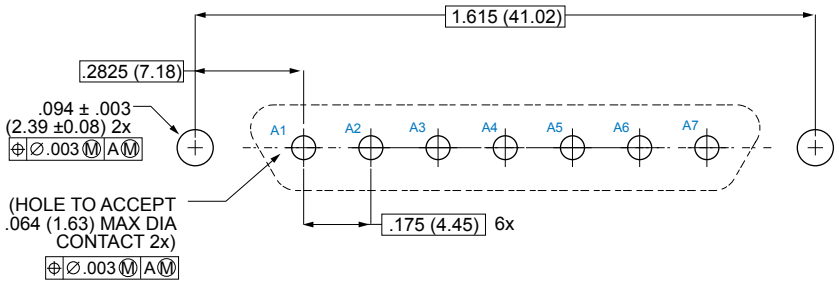
H-66	
J-17P4	
J-25P2	
J-33	
J-7P7	

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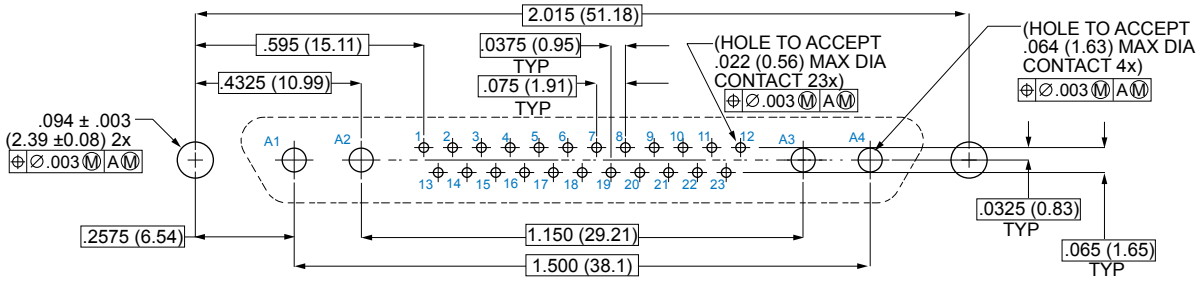
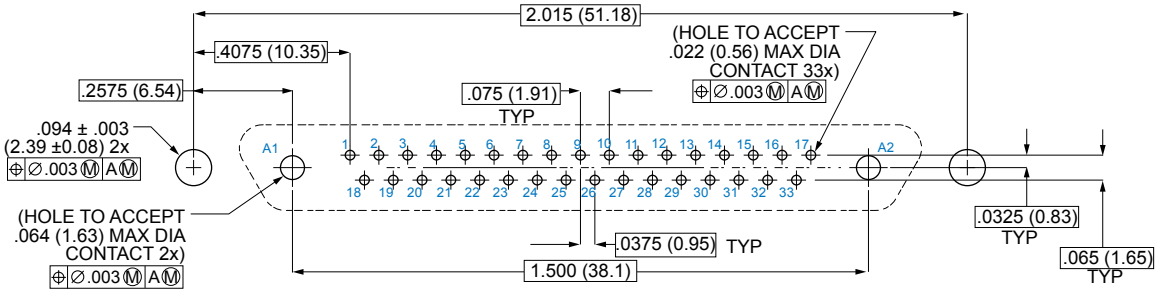
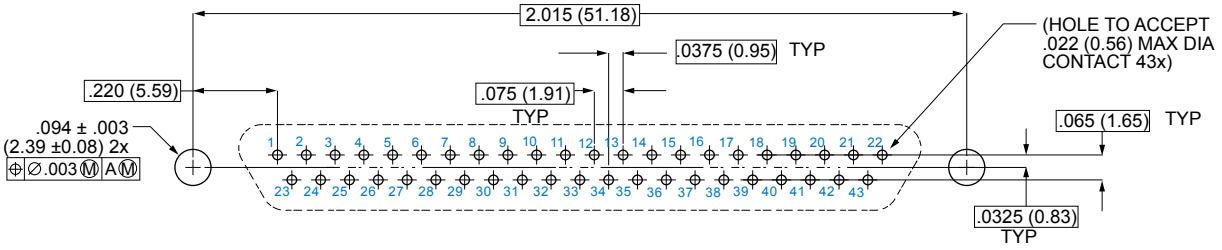
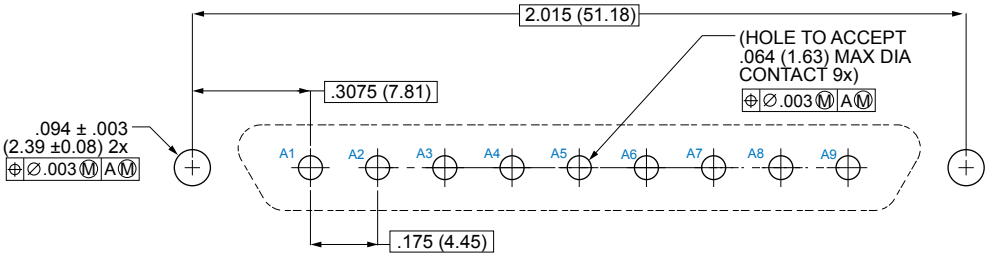
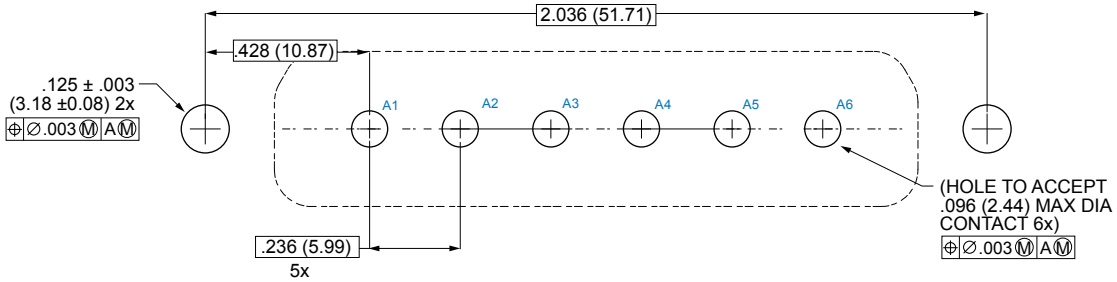
Insert Arr.	Component Mounting Side of PCB
K-27P4	
K-35P2	
K-43	
K-9P9	
L-6P6	

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