Glenair®

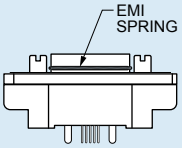
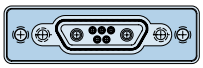
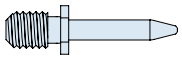
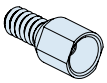
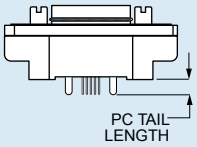
Series 79 Micro-Crimp
Section F: Straight Printed Circuit Board Connectors

PANEL PLUGS WITH SOCKET CONTACTS, STRAIGHT PCB TERMINATION, 790-029S

Lightweight, rugged vertical mount headers feature gold-plated PC tail contacts for thru-hole printed circuit board termination. 790-029S connectors are designed for rear-panel mounting and are supplied with conductive panel gaskets. Contacts are permanently installed and are sealed with epoxy. Shells are aluminum alloy. Threaded board mounting holes and integral standoffs simplify installation. Available in 29 different contact arrangements, these connectors feature size #23 signal contacts along with #16 and #12 power contacts for up to 23 amps current rating. Optional EMI spring improves shell-to-shell conductivity and shielding performance. Stainless steel jackposts are non-removable.

HOW TO ORDER

Sample Part Number

790-029S	K-43	M	E	P	B
Part Number	**Shell Size - Insert Arr.**	**Shell Finish**	**EMI Spring**	**Hardware Option**	**PC Tail Length**
790-029S Rear Panel Mounted Plug with Straight PC Tail 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.	**E** EMI Spring **N** No Spring 	 **N** No Hardware  **G** Guide Pin **P** Female Jackpost  **S** Female Guide Socket	**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, with stainless steel hoods
Insulator	Liquid crystal polymer (LCP)
Hardware	300 series stainless steel
Panel Gasket	Fluorosilicone, conductive
Encapsulant	Epoxy

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

© 2009 Glenair, Inc.
CAGE Code 06324
Printed in U.S.A.

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 790-029S

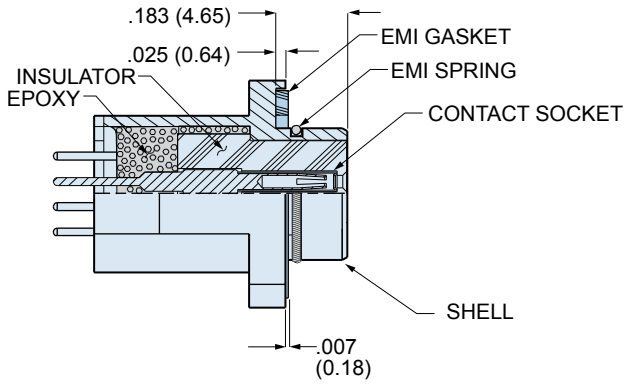
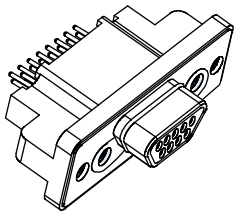


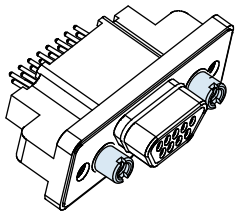
TABLE 2 HARDWARE OPTION



N

No Mating Hardware

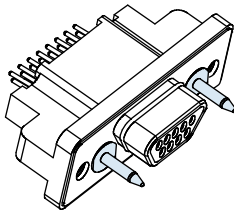
Connector is supplied with threaded holes. Shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).



P

Jackposts

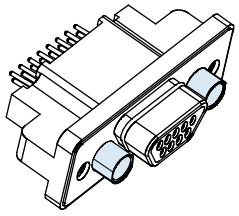
Connector is supplied with non-removable stainless steel jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.



G

Guide Pins

Connector is supplied with stainless steel non-removable guide pins. Mates with type "S" guide sockets on corresponding receptacle connector.



S

Guide Sockets

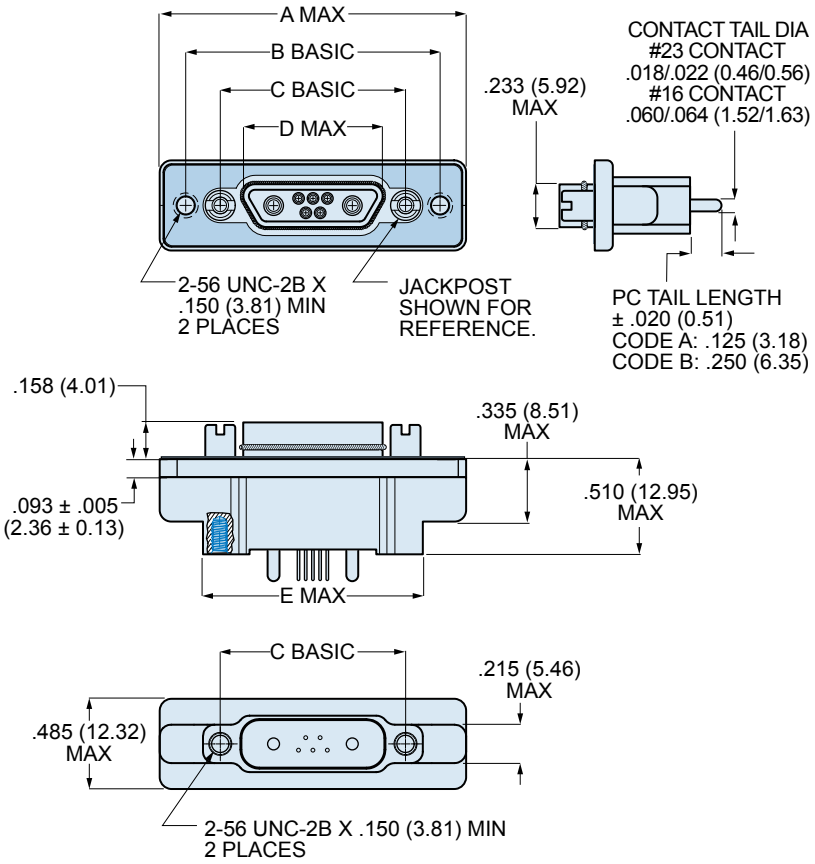
Connector is supplied with stainless steel non-removable bushings. Mates with type "G" guide pins on corresponding receptacle connector.

F

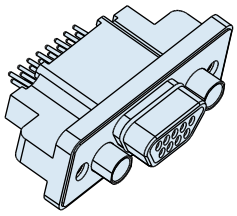
Dimensions in inches (millimeters) and are subject to change without notice.

© 2009 Glenair, Inc.

790-029S SHELL SIZE A,B,C,D,E,F,J,K DIMENSIONS



BLIND MATE



SHELL SIZES A, B, C, D, E, F, G, J, K
+/- .030 (0.76) ALLOWABLE
MISALIGNMENT FROM CENTERLINE

790-029S SIZE A-F, J, K DIMENSIONS

Shell Size	A Max.		B Basic		C Basic		D Max.		E Max.	
	In.	mm.	In .	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.211	30.76	.925	23.50	.565	14.35	.335	8.51	.760	19.30
B	1.361	34.57	1.075	27.31	.715	18.16	.485	12.32	.910	21.11
C	1.511	38.38	1.225	31.12	.865	21.97	.635	16.13	1.060	26.92
D	1.611	40.92	1.325	33.66	.965	24.51	.735	18.67	1.160	29.46
E	1.761	44.73	1.475	37.47	1.115	28.32	.885	22.48	1.310	33.27
F	1.911	48.54	1.625	41.28	1.265	32.13	1.035	26.29	1.460	37.08
J	2.261	57.43	1.975	50.17	1.615	41.02	1.390	35.31	1.810	45.97
K	2.661	67.59	2.375	60.33	2.015	51.18	1.795	45.59	2.210	56.13

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

© 2009 Glenair, Inc.

CAGE Code 06324

Printed in U.S.A.

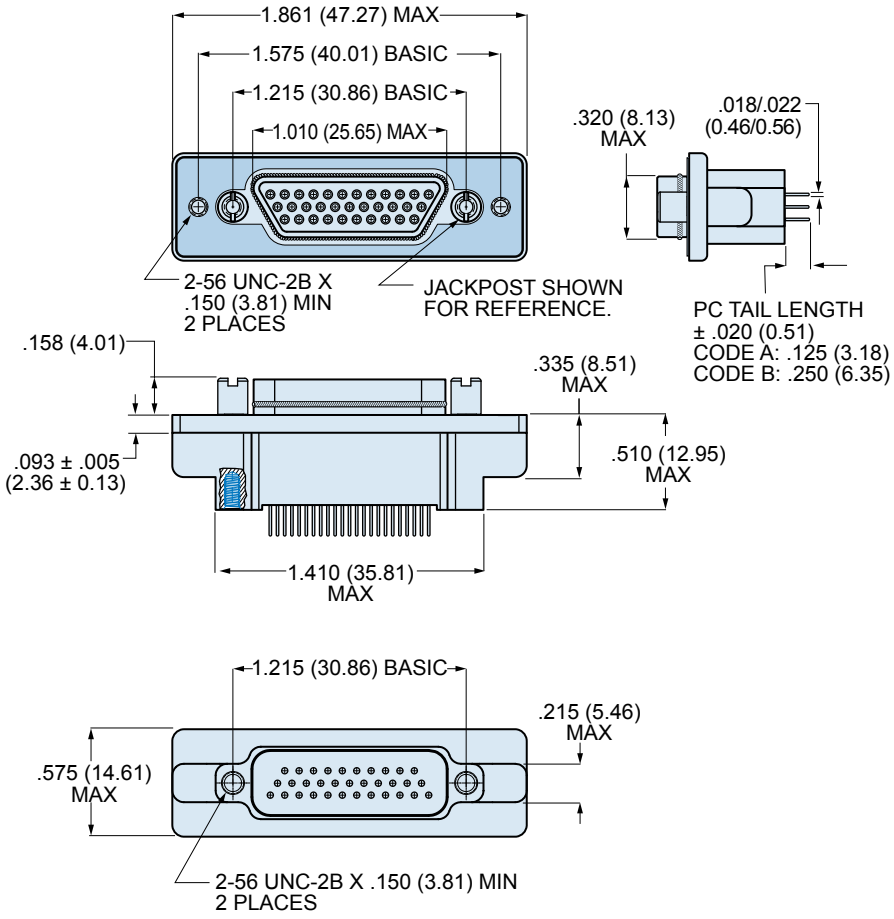
GLENAIR, INC. • 1211 AIR WAY • GLENDALE, CA 91201-2497 • 818-247-6000 • FAX 818-500-9912

www.glenair.com

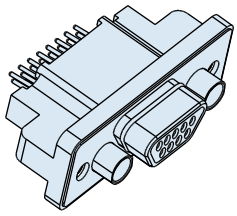
E-Mail: sales@glenair.com

Rev. 04-July-2009

790-029S SHELL SIZE G DIMENSIONS



BLIND MATE



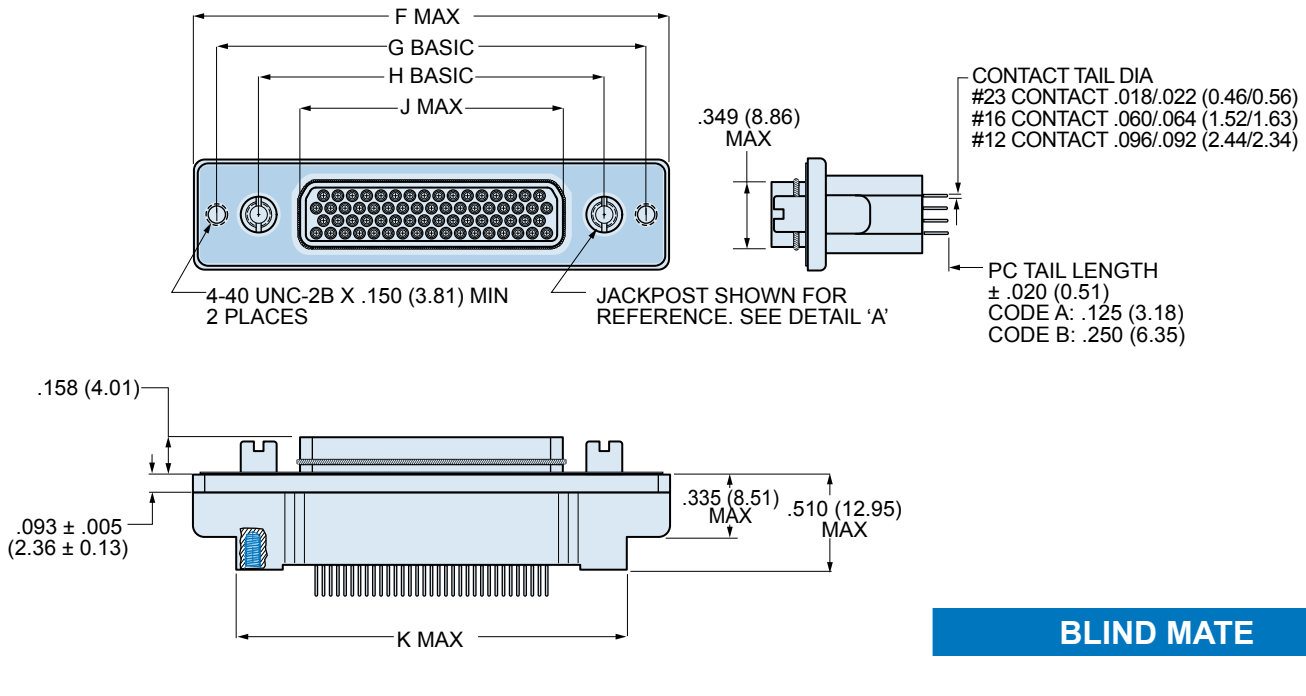
SHELL SIZES A, B, C, D, E, F, G, J, K
+/- .030 (0.76) ALLOWABLE
MISALIGNMENT FROM CENTERLINE

F

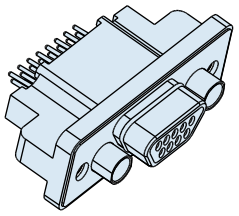
Dimensions in inches (millimeters) and are subject to change without notice.

© 2009 Glenair, Inc.
CAGE Code 06324
Printed in U.S.A.

790-029S SHELL SIZE H AND L DIMENSIONS



BLIND MATE



SHELL SIZES H, L
+/- .040 (1.02) ALLOWABLE MISALIGNMENT
FROM CENTERLINE

F

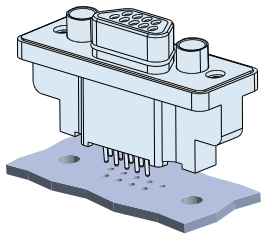
790-029S SIZE H & L DIMENSIONS

Shell Size	F Max.		G Basic		H Basic		J Max.		K Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
H	2.500	63.50	2.236	56.79	1.800	45.72	1.385	35.18	2.045	51.94
L	2.736	69.49	2.472	62.79	2.036	51.71	1.623	41.22	2.281	57.94

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

© 2009 Glenair, Inc.
CAGE Code 06324
Printed in U.S.A.

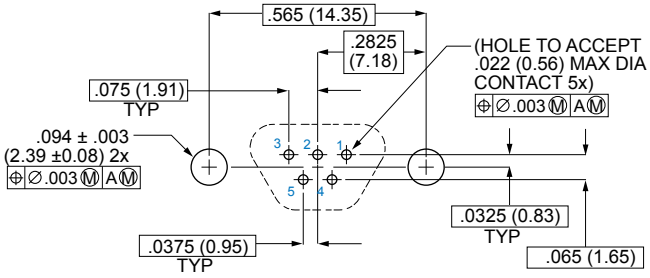
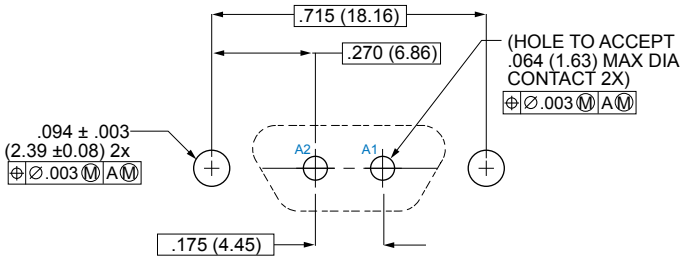
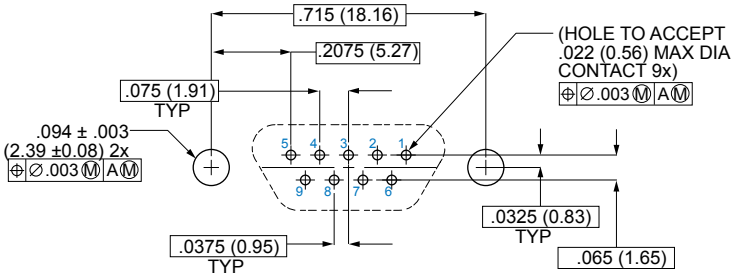
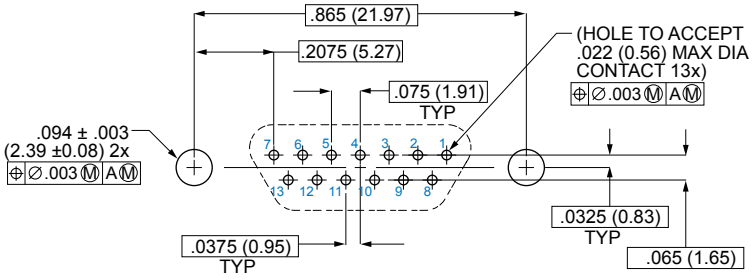
PCB Hole Patterns for 790-029S and 790-044S Plugs



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

Contact Size	PC Tail Diameter 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

790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS

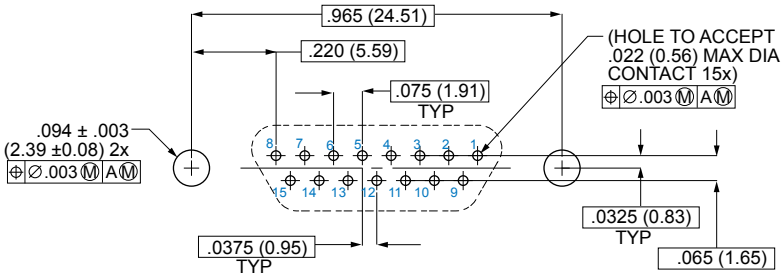
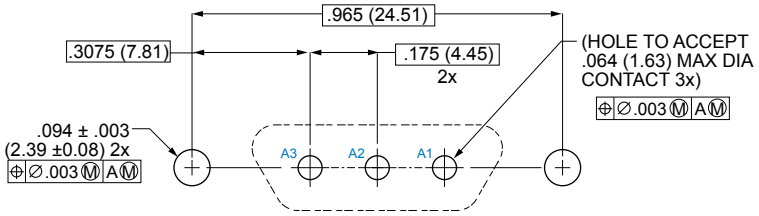
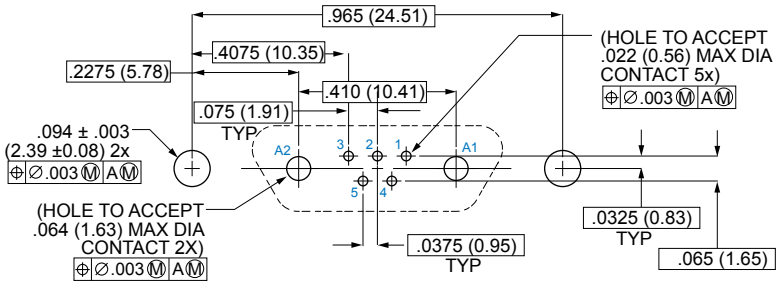
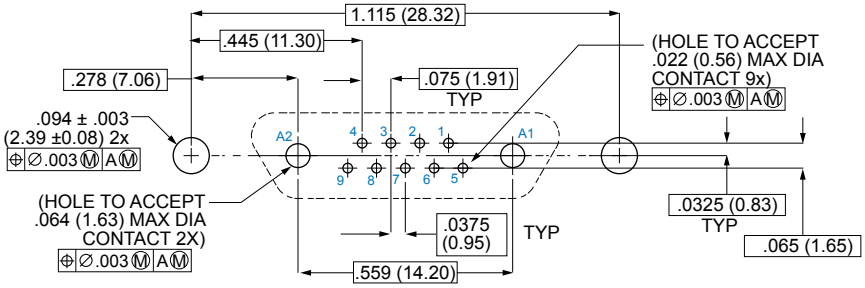
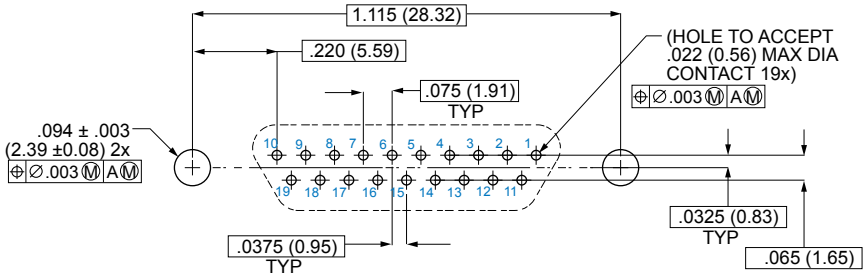
Insert Arr.	Component Mounting Side of PCB
A-5	
B-2P2	
B-9	
C-13	

F

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

© 2009 Glenair, Inc.
CAGE Code 06324
Printed in U.S.A.

790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS

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

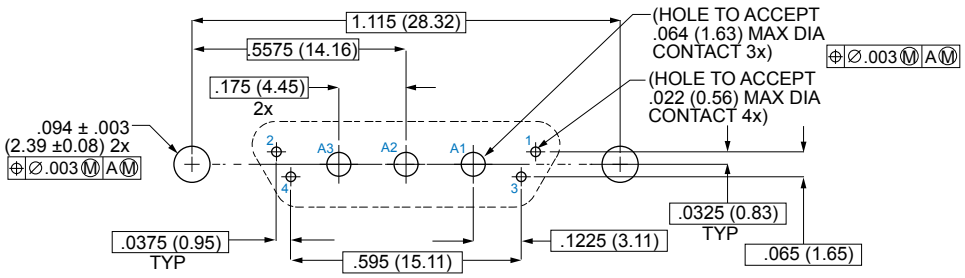
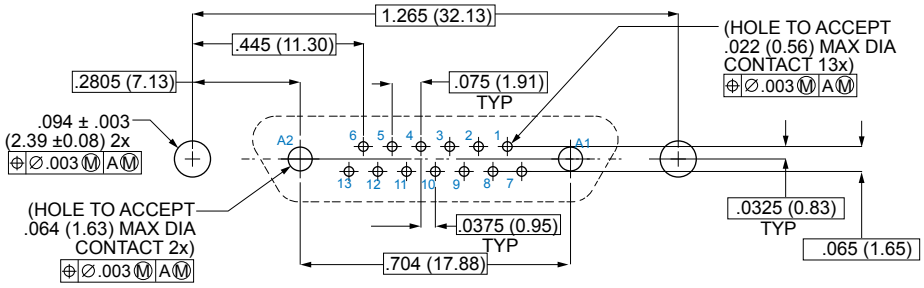
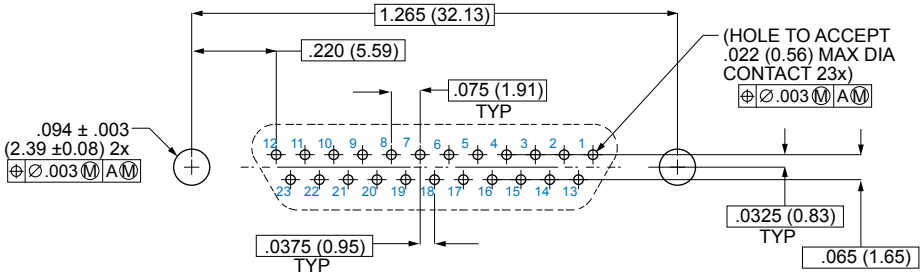
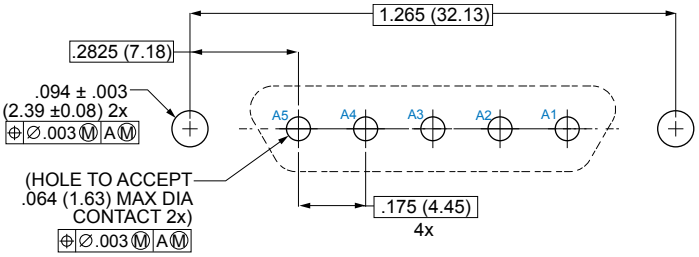
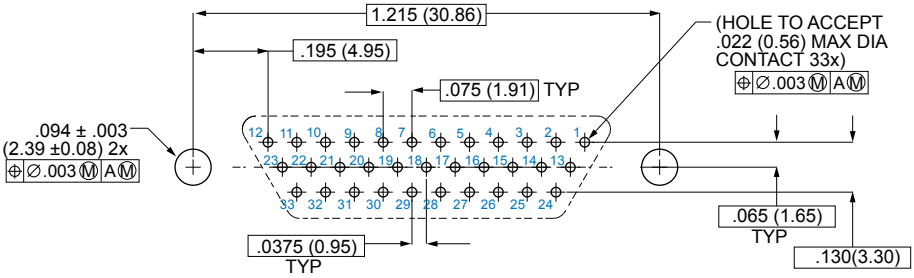
Dimensions in inches (millimeters) and are subject to change without notice.

© 2009 Glenair, Inc.

CAGE Code 06324

Printed in U.S.A.

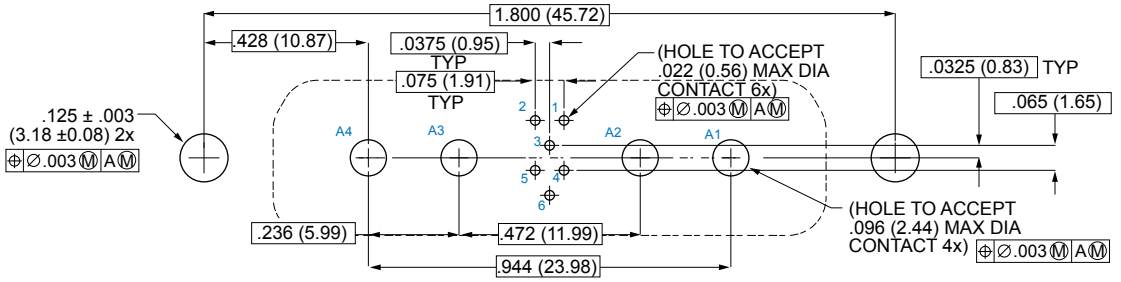
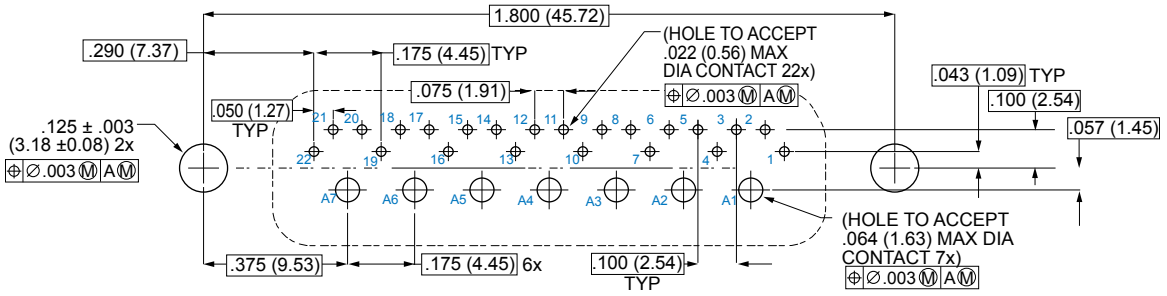
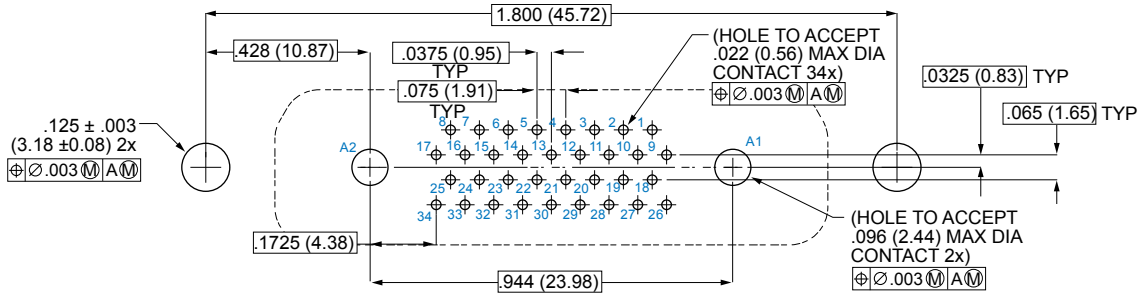
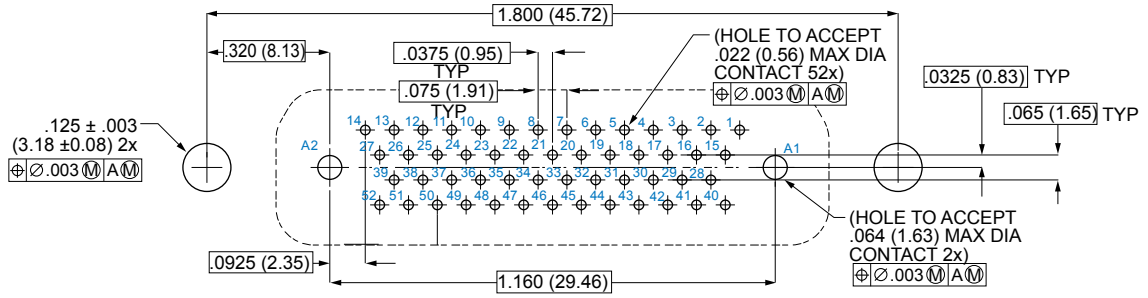
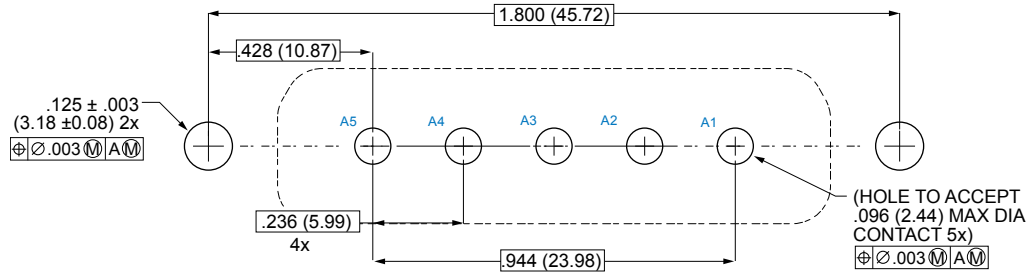
790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS

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

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

© 2009 Glenair, Inc.
CAGE Code 06324
Printed in U.S.A.

790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS

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

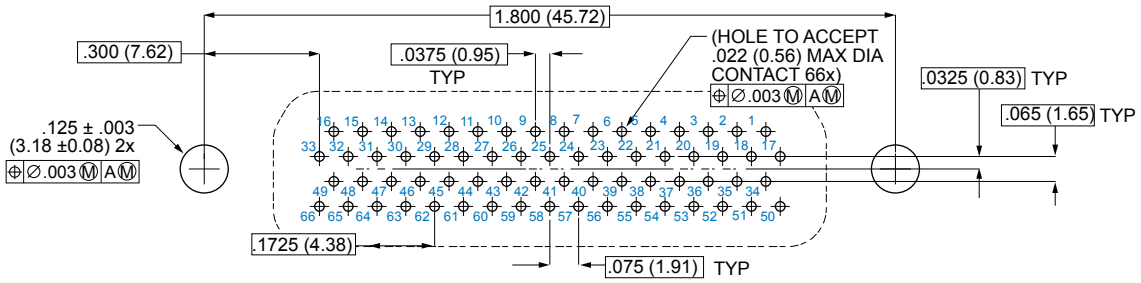
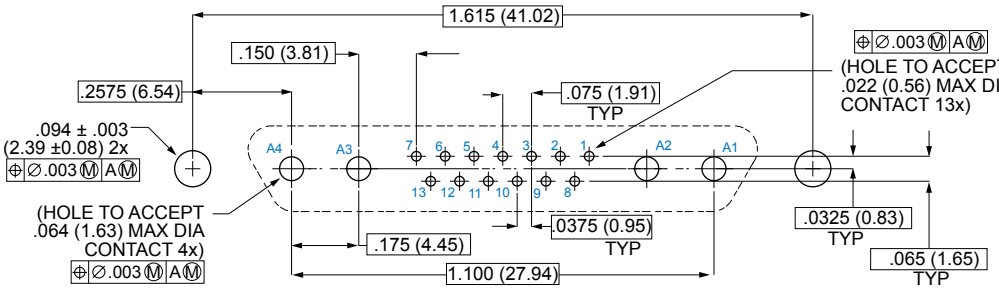
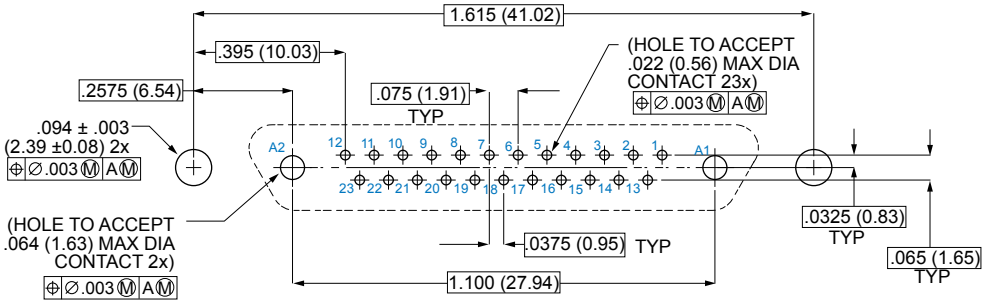
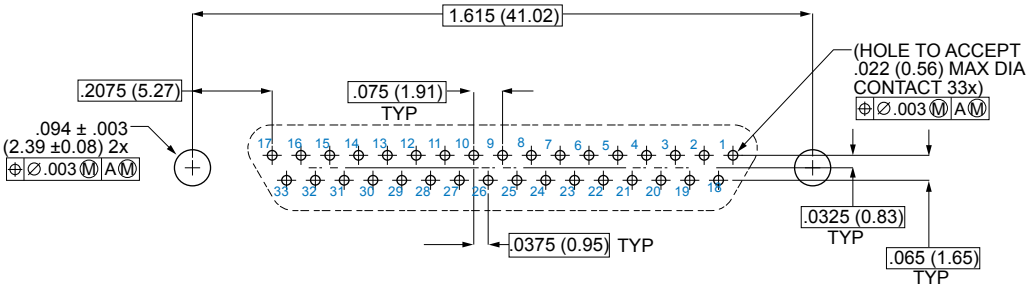
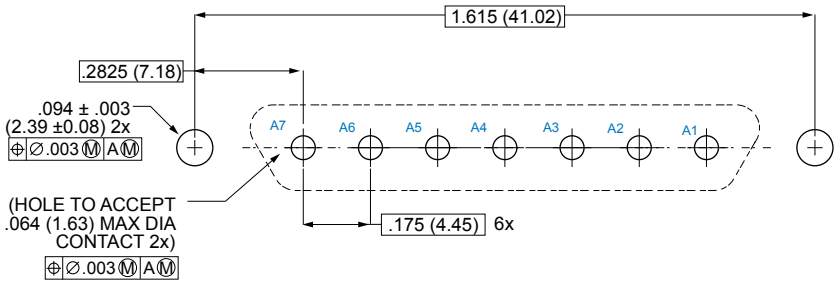
Dimensions in inches (millimeters) and are subject to change without notice.

© 2009 Glenair, Inc.

CAGE Code 06324

Printed in U.S.A.

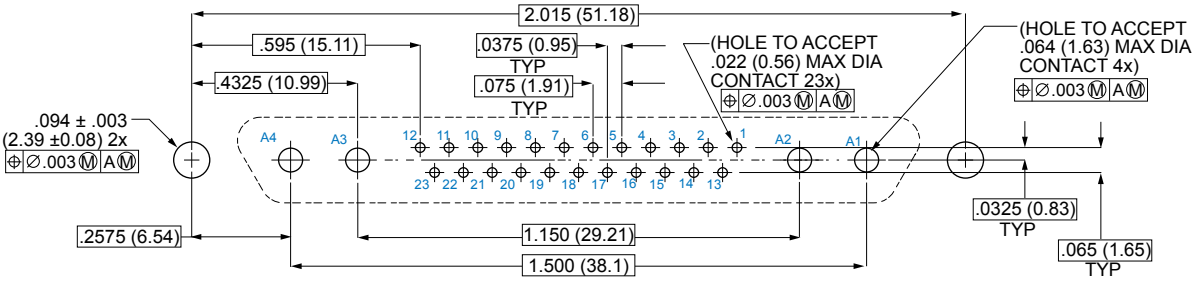
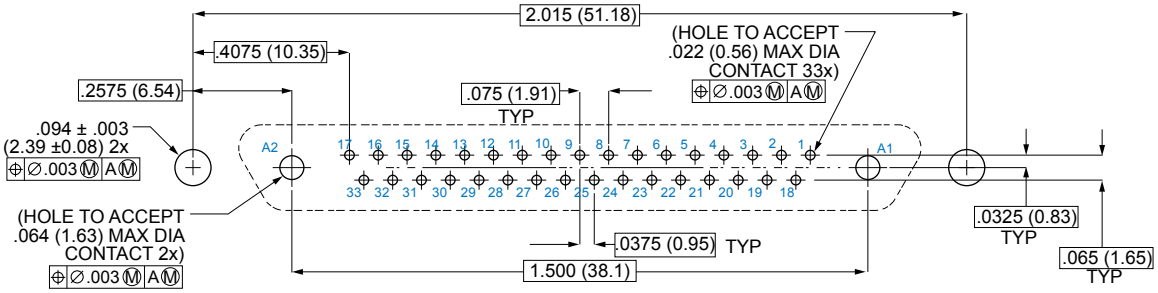
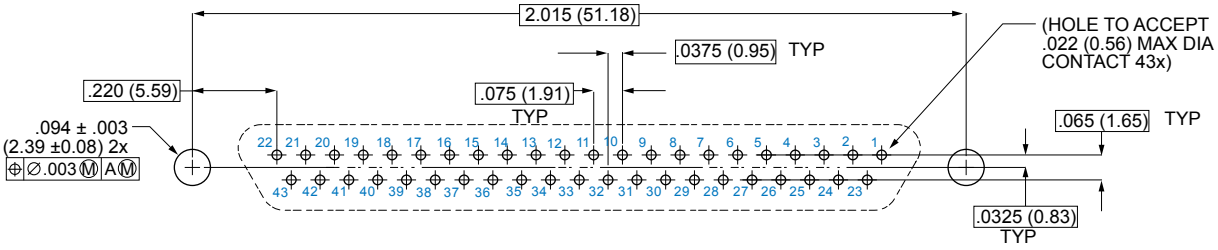
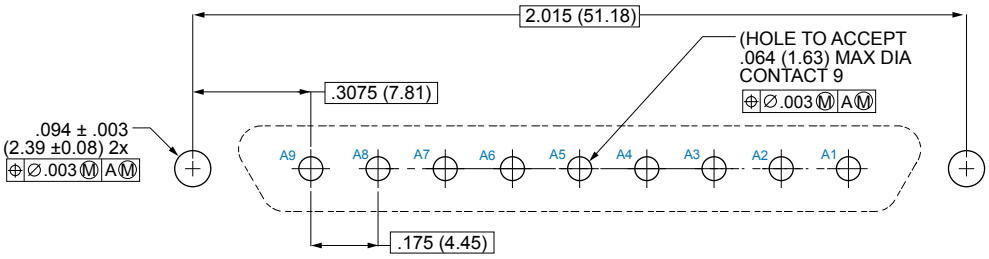
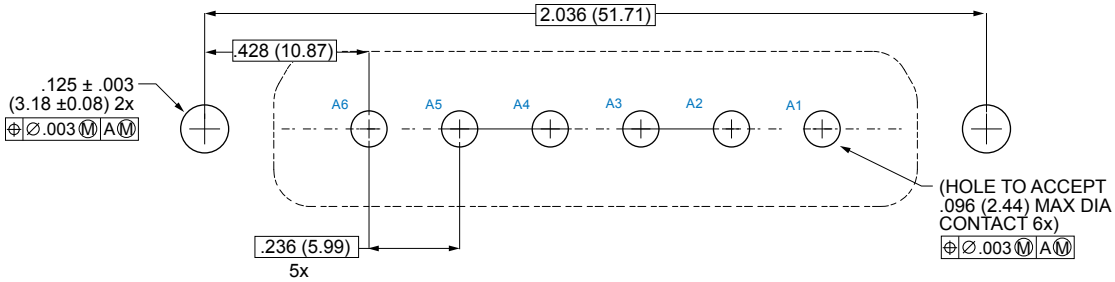
790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
H-66	
J-17P4	
J-25P2	
J-33	
J-7P7	

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

© 2009 Glenair, Inc.
CAGE Code 06324
Printed in U.S.A.

790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS

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

© 2009 Glenair, Inc.

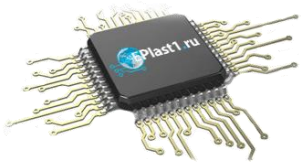
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.