

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 790 High-Density

SERIES™
790
HD

790-042

PCB Plug, 90° Tails

- ◆ 90° PCB termination
- ◆ Socket contacts



790-042 plug has right angle socket contacts for thru-hole printed circuit board termination. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. EMI shroud improves shielding. Optional EMI spring. Available in forty insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade microminiature PCB connector with 90° M39029-type PCB contacts
- Epoxy sealed
- EMI shroud
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts			
	#23	#16	#12	#8
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-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
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-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

HOW TO ORDER

Sample Part Number		790-042S	K-27P4	M	E	P	A
Basic Part Number	790-042S		PCB Plug, Socket Contacts, 90° Tails				
Shell Size-Insert Arr.	See <i>“Insert Arrangements”</i> Table						
Shell Finish	M Electroless Nickel						
	MT Nickel / PTFE						
	N Olive Drab Cadmium						
	TZ Tin-Zinc						
	ZR Black Zinc-Nickel						
EMI Spring	E EMI Spring <i>Shell finishes M and MT only</i>						
	N No EMI Spring						
Jackposts	N No Jackposts						
	P Jackposts						
PC Tail Length	A .125 inch (3.2mm)						
	B .250 inch (6.4mm)						
	C .375 inch (9.5mm)						

JACKPOSTS

N No Jackposts Connector has blind threaded holes	P Jackposts
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RATINGS

- Voltage (DWV): size 23 contacts 750 VAC
Size 8, 12 and 16: 1800 VAC
- Current: #23 5A, #16 13A, #12 23A, #8 46A
- Operating temperature: -65 to +150 °C
- Durability: 500 mating cycles
- Shock: 300 g
- Vibration: 20 g random
- Altitude immersion: 75,000 feet
- Ingress protection: IP67

CONSTRUCTION

- Socket Contacts: Copper alloy, gold over nickel finish. Stainless steel hood.
- Shell: Aluminum
- Insulator: High performance thermoplastic
- EMI spring: Stainless steel, gold plated
- EMI shroud: Aluminum
- Encapsulant: Epoxy
- Hardware: Stainless steel

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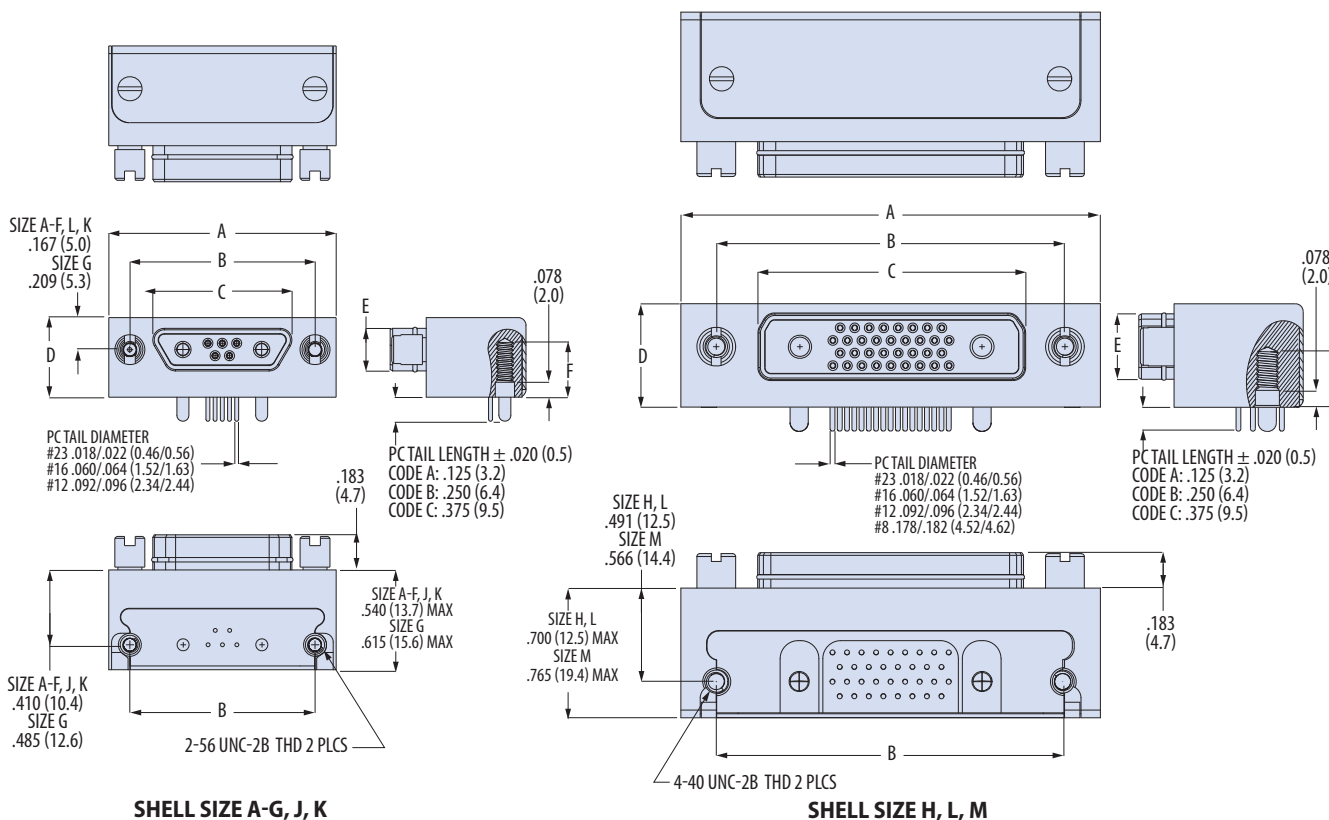


790-042

PCB Plug, 90° Tails

- ◆ 90° PCB termination
- ◆ Socket contacts

SERIES 790 HIGH-DENSITY



Shell Size	A Max	B ± .005 (0.1)	C Max	D Max	E Max	F Min
	in	mm	in	mm	in	mm
A	.805	20.4	.565	14.4	.335	8.5
B	.955	24.3	.715	18.2	.485	12.3
C	1.105	28.1	.865	22.0	.635	16.1
D	1.205	30.6	.965	24.5	.735	18.7
E	1.355	34.4	1.115	28.3	.885	22.5
F	1.505	38.2	1.265	32.1	1.035	26.3
G	1.455	37.0	1.215	30.9	1.010	25.7
H	2.185	55.5	1.800	45.7	1.385	35.2
J	1.855	47.1	1.615	41.0	1.390	35.3
K	2.255	57.3	2.015	51.2	1.795	45.6
L	2.430	61.7	2.036	51.7	1.623	41.2
M	2.575	65.4	2.200	55.9	1.675	42.5

Application Note

PCB Footprints

See Section **G** for PC board layouts.

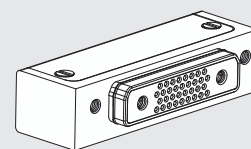
Straight tails: pages **G-1** – **G-9**
90° tails: pages **G-10** – **G-20**

Application Note

Panel Mounting

For panel mounting, specify connector without jackposts. Use rear panel mount jackpost **799-119**. See page **F-20** for jackpost ordering information and panel cutout dimensions.

JACKPOST OPTIONS

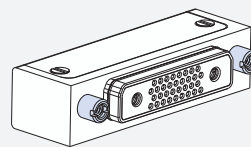


N

No Jackposts

Connector has blind threaded holes, .150 (3.8) minimum depth.

Size A-G, J, K = 4-40 UNC-2B
Size H, L = 6-32 UNC-2B
Size M = 8-32 UNC-2B



P

Jackposts

Non-removable.

Size A-G, J, K = 2-56 UNC-2B
Size H, L = 4-40 UNC-2B
Size M = 6-32 UNC-2B