

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 790 High-Density

SERIES™
790
HD

790-041

PCB Receptacle, 90° Tails

- ◆ 90° PCB termination
- ◆ Pin contacts



790-041 receptacle has gold-plated right angle 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. Fluorosilicone face seal provides environmental protection to mating interface. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade microminiature connector with M39029-type 90° 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

Sample Part Number		790-041P	J-33	M	P	A
Basic Part Number	790-041P 90° PCB Receptacle, Pin Contacts					
Shell Size-Insert Arr.	See "Insert Arrangements" Table					
Shell Finish	M Electroless Nickel MT Nickel / PTFE N Olive Drab Cadmium TZ Tin-Zinc ZR Black Zinc-Nickel					
Jackposts	N No Jackposts P Jackposts					
PC Tail Length	A .125 inch (3.2mm) B .250 inch (6.4mm) C .375 inch (9.5mm)					

TABLE 1 HARDWARE OPTIONS

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

- Contacts: Copper alloy, gold over nickel finish
- Shell: Aluminum
- Insulators: High performance thermoplastic
- Face seal: Fluorosilicone/silicone blend
- EMI shroud: Aluminum
- Encapsulant: Epoxy
- Hardware: Stainless steel

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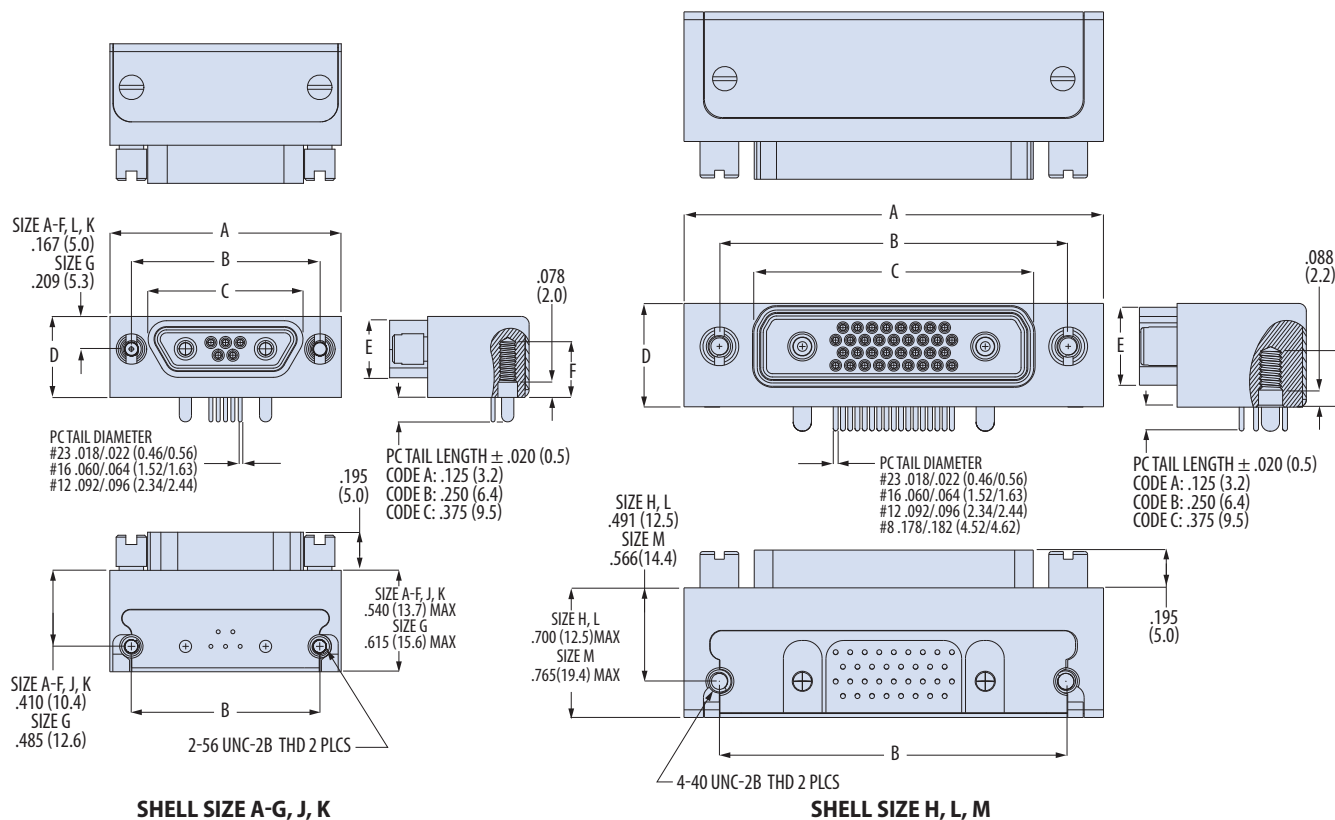


790-041

PCB Receptacle, 90° Tails

- ◆ 90° PCB termination
- ◆ Pin 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	in	mm	in	mm	in	mm
A	.805	20.4	.565	14.4	.401	10.2	.430	10.9	.308	7.8	.228	5.8
B	.955	24.3	.715	18.2	.551	14.0	.430	10.9	.308	7.8	.228	5.8
C	1.105	28.1	.865	22.0	.701	17.8	.430	10.9	.308	7.8	.228	5.8
D	1.205	30.6	.965	24.5	.801	20.3	.430	10.9	.308	7.8	.228	5.8
E	1.355	34.4	1.115	28.3	.951	24.2	.430	10.9	.308	7.8	.228	5.8
F	1.505	38.2	1.265	32.1	1.101	28.0	.430	10.9	.308	7.8	.228	5.8
G	1.455	37.0	1.215	30.9	1.079	27.4	.530	13.5	.395	10.0	.228	5.8
H	2.185	55.5	1.800	45.7	1.450	36.8	.550	14.0	.410	10.4	.238	6.0
J	1.855	47.1	1.615	41.0	1.456	37.0	.430	10.9	.308	7.8	.228	5.8
K	2.255	57.3	2.015	51.2	1.860	47.2	.430	10.9	.308	7.8	.228	5.8
L	2.430	61.7	2.036	51.7	1.686	42.8	.550	14.0	.410	10.4	.238	6.0
M	2.575	65.4	2.200	55.9	1.745	44.3	.635	16.1	.470	11.9	.250	6.4

Application Note PCB Footprints

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

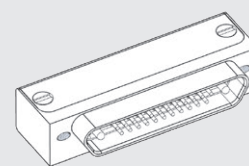
Straight tails: pages **G-1 – G-9**

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

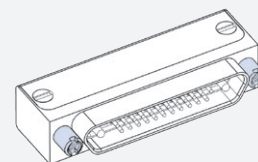
No Jackposts

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