

MICRO-CRIMP RECTANGULAR CONNECTORS

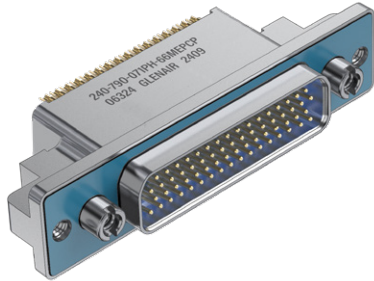
Series 790 High-Density

SERIES™
790
HD

240-790-071

Panel Receptacle, Filtered

- ◆ Solder cup termination
- ◆ Pin contacts



240-790-071 rear panel mount receptacle has ceramic filter array to attenuate unwanted signals. Solder cup contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240KpF. Conductive fluorosilicone panel gasket provides low resistance panel bonding and ingress protection. Machined aluminum shell has rear threads for attaching EMI banding adapter (799-016, sold separately).

- Aerospace-grade microminiature rectangular connector with ceramic filter
- 39 insert arrangements with up to 102 contacts
- 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			

HOW TO ORDER

Sample Part Number		240-790-071P	H-66	ME	P	C	P
Basic Part Number	240-790-071P	Panel Receptacle, Filtered, Pin Contacts					
Shell Size-Insert Arr.	See <i>“Insert Arrangements”</i> Table						
Shell Finish	ME Electroless Nickel						
	MT Nickel / PTFE						
	N Olive Drab Cadmium						
	TZ Tin-Zinc						
	ZR Black Zinc-Nickel						
Filter Type	C C Circuit						
	P Pi Circuit						
Filter Capacitance Class	See <i>“Filter Capacitance Class”</i> Table						
Hardware Option <i>Table 1</i>	N No Hardware <i>Threaded holes</i>						
	G Guide Pins <i>For blind mating</i>						
	P Female Jackposts						
	S Guide Sockets <i>For blind mating</i>						

FILTER CAPACITANCE CLASS

Filter Class	Capacitance Range (pF)	
	Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

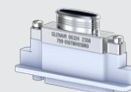
† Class X filters not available for arrangements with 3 or more rows of contacts.

TABLE 1 HARDWARE OPTIONS

N No Hardware	P Female Jackpost
G Guide Pin	S Guide Socket

Application Note

EMI Banding Backshell 799-016



See page F-32 for backshell ordering information.

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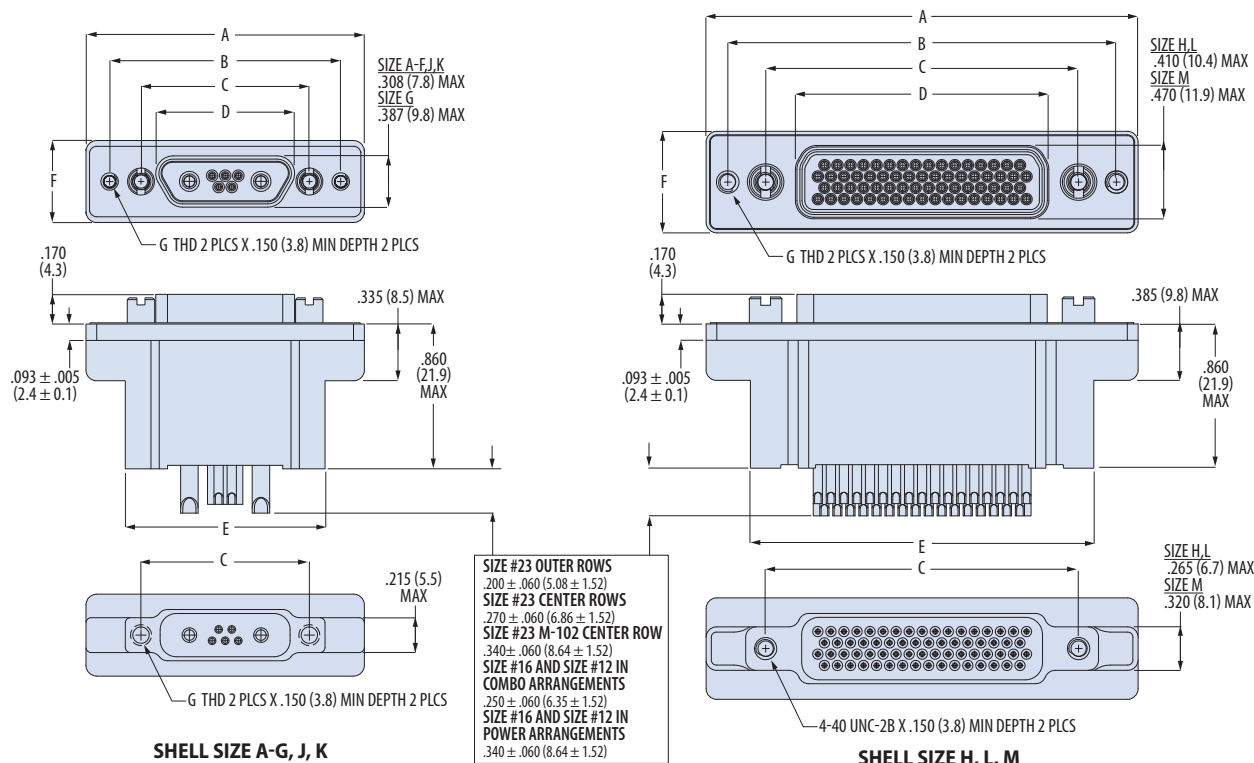


240-790-071

Panel Receptacle, Filtered

- ◆ Solder cup termination
- ◆ Pin contacts

SERIES 790 HIGH-DENSITY



Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G THD UNC-2B
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
A	1.211	30.8	.925	23.5	.565	14.4	.401	10.2	.760	19.3	.485	12.3	2-56
B	1.361	34.6	1.075	27.3	.715	18.2	.551	14.0	.910	23.1	.485	12.3	2-56
C	1.511	38.4	1.225	31.1	.865	22.0	.701	17.8	1.060	26.9	.485	12.3	2-56
D	1.611	40.9	1.325	33.7	.965	24.5	.801	20.3	1.160	29.5	.485	12.3	2-56
E	1.761	44.7	1.475	37.5	1.115	28.3	.951	24.2	1.310	33.3	.485	12.3	2-56
F	1.911	48.5	1.625	41.3	1.265	32.1	1.101	28.0	1.460	37.1	.485	12.3	2-56
G	1.861	47.3	1.575	40.0	1.215	30.9	1.079	27.4	1.410	35.8	.575	14.6	2-56
H	2.500	63.5	2.236	56.8	1.800	45.7	1.450	36.8	2.045	51.9	.600	15.2	4-40
J	2.261	57.4	1.975	50.2	1.615	41.0	1.460	37.1	1.810	46.0	.485	12.3	2-56
K	2.661	67.6	2.375	60.3	2.015	51.2	1.860	47.2	2.210	56.1	.485	12.3	2-56
L	2.736	69.5	2.472	62.8	2.036	51.7	1.686	42.8	2.281	57.9	.600	15.2	4-40
M	3.085	78.4	2.770	70.4	2.200	55.9	1.745	44.3	2.485	63.1	.660	16.8	6-32

BLIND MATE TOLERANCES	
Shell Size	Allowable Misalignment from Centerline
A - G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

HARDWARE DETAILS	
N No Hardware Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth	P Female Jackposts Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.
G Guide Pins Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.	S Guide Sockets Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

RATINGS
- Voltage (DWV): 500 VDC. Class X, Y, Z: 250 VDC. - Current rating for arrangements with all contacts the same size: #23 5A, #16 13A, #12 23A - Current rating for arrangements with mixed contact sizes: #23 5A, #16 7.5A, #12 13A - Operating temperature: -55 to +125 °C - Durability: 500 mating cycles - Shock: 300 g - Vibration: 20 g random - Insulation resistance: 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

CONSTRUCTION
- Contacts: Copper alloy, gold over nickel finish - Shell: Aluminum - Insulators: High performance dielectric - Wire grommet, face seal: Fluorosilicone/silicone blend - Panel gasket: Cho-Seal 1287 silver-plated aluminum filled fluorosilicone - Hardware: Stainless steel

Application Note
See page A-60 for panel cutout dimensions.