

# MICRO-CRIMP RECTANGULAR CONNECTORS

## Series 791 Scoop-Proof



### 791-013

### PCB Receptacle, Straight Tails

- ◆ Straight PCB termination
- ◆ Pin contacts



791-013 receptacle has straight PC tails 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. Fluorosilicone face seal provides environmental protection. 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 ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed PC terminals
- 40 insert arrangements with M39029-type 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			
M-4P4				4

HOW TO ORDER								
Sample Part Number		791-013P	H-66	M	E	P	C	B
Basic Part Number	791-013P		PCB Receptacle, Straight Tails, Pin Contacts					
Shell Size-Insert Arr.	See “Insert Arrangements” Table							
Shell Finish	<u>M</u> Electroless Nickel							
	<u>MT</u> Nickel / PTFE							
	<u>NF</u> Olive Drab Cadmium							
	<u>TZ</u> Tin-Zinc							
	<u>ZR</u> Black Zinc-Nickel							
EMI Spring	<u>E</u> EMI Spring							
	<u>N</u> No EMI Spring							
Jackpost Option <i>Table 1</i>	<u>N</u> No Jackposts							
	<u>P</u> Female Jackposts							
	<u>R1</u> Rear Panel Mount Jackposts .032 (0.81) Panel Thickness							
	<u>R2</u> Rear Panel Mount Jackposts .050 (1.27) Panel Thickness							
	<u>R3</u> Rear Panel Mount Jackposts .062 (1.59) Panel Thickness							
	<u>R4</u> Rear Panel Mount Jackposts .080 (2.03) Panel Thickness							
	<u>R5</u> Rear Panel Mount Jackposts .093 (2.36) Panel Thickness							
	<u>R6</u> Rear Panel Mount Jackposts .125 (3.18) Panel Thickness							
PC Tail Length	<u>A</u> .125 inch (3.2 mm)							
	<u>B</u> .250 inch (6.4 mm)							
	<u>C</u> .375 inch (9.5 mm)							
Polarization Key Option	Enter Letter Designator for Position <b>A, B, C, D, E</b> , or <b>F</b> per Mod Code 555 (see page B-8 for details) <b>Omit</b> for none							

TABLE 1 JACKPOST OPTION		
<b>N</b> No Hardware 	<b>P</b> Female Jackpost 	<b>R1 - R6</b> Rear Panel Jackpost 
RATINGS		CONSTRUCTION
<ul style="list-style-type: none"> <li>Voltage (DWV): size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC</li> <li>Current: #23 5A, #16 13A, #12 23A, #8 46A</li> <li>Operating temperature: -65 to +150 °C</li> <li>Durability: 500 mating cycles</li> <li>Shock: 300 g</li> <li>Vibration: 20 g random</li> <li>Altitude immersion: 75,000 feet</li> <li>Ingress protection: IP67</li> </ul>		<ul style="list-style-type: none"> <li>Contacts: Copper alloy, gold over nickel finish</li> <li>Shell: Aluminum</li> <li>Insulator: High performance thermoplastic</li> <li>Face seal: Fluorosilicone/silicone blend</li> <li>Encapsulant: Epoxy</li> <li>Hardware: Stainless steel</li> </ul>

# MICRO-CRIMP RECTANGULAR CONNECTORS

## Series 791 Scoop-Proof

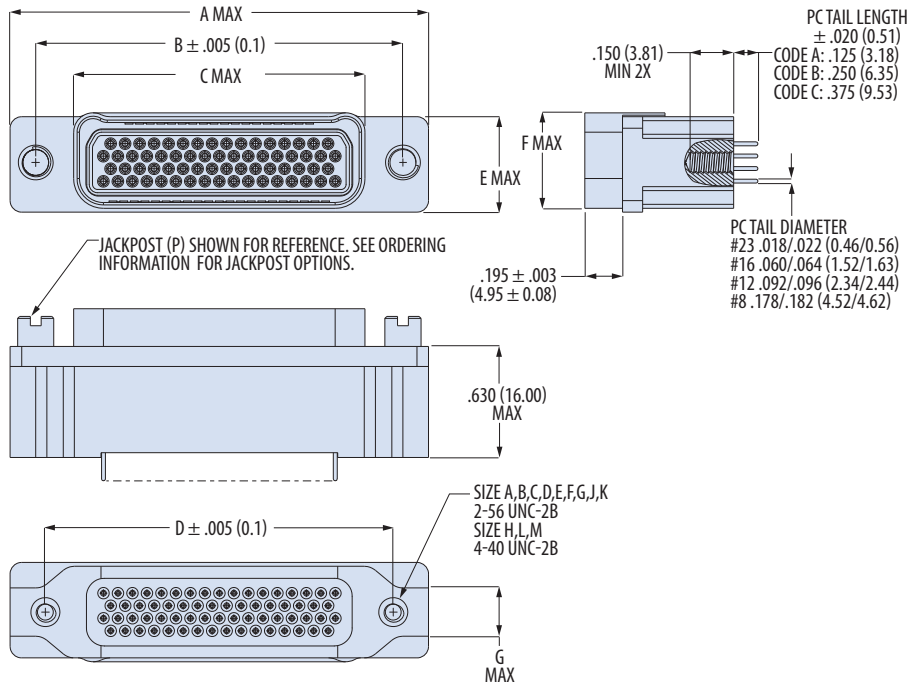
**SERIES**  
**791**  
Scoop-Proof

### 791-013

#### PCB Receptacle, Straight Tails

- ◆ Straight PCB termination
- ◆ Pin contacts

SERIES 791 SCOOP-PROOF

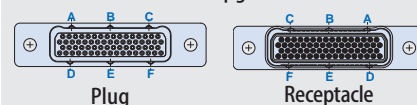


Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E Max		F Max		G Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.995	25.3	.750	19.1	.490	12.4	.565	14.4	.403	10.2	.400	10.2	.215	5.5
B	1.145	29.1	.900	22.9	.640	16.3	.715	18.2	.403	10.2	.400	10.2	.215	5.5
C	1.295	32.9	1.050	26.7	.790	20.1	.865	22.0	.403	10.2	.400	10.2	.215	5.5
D	1.370	34.8	1.125	28.6	.865	22.0	.965	24.5	.403	10.2	.400	10.2	.215	5.5
E	1.520	38.6	1.275	32.4	1.015	25.8	1.115	28.3	.403	10.2	.400	10.2	.215	5.5
F	1.670	42.4	1.425	36.2	1.165	29.6	1.265	32.1	.403	10.2	.400	10.2	.215	5.5
G	1.630	41.4	1.388	35.3	1.127	28.6	1.215	30.9	.491	12.5	.485	12.3	.215	5.5
H	2.180	55.4	1.900	48.3	1.516	38.5	1.800	45.7	.509	12.9	.500	12.7	.265	6.7
J	2.045	51.9	1.800	45.7	1.540	39.1	1.615	41.0	.403	10.2	.400	10.2	.215	5.5
K	2.420	61.5	2.175	55.2	1.915	48.6	2.015	51.2	.403	10.2	.400	10.2	.215	5.5
L	2.416	61.4	2.136	54.3	1.752	44.5	2.036	51.7	.509	12.9	.500	12.7	.265	6.7
M	2.580	65.5	2.200	55.9	1.815	46.1	2.200	55.9	.577	14.7	.585	14.9	.275	7.0

#### Application Note

##### Polarization Key Positions

See Mod Code 555 pg. B-8 for details



#### Application Note

##### PCB Footprints

See Section G for PC board layouts.

Straight tails: pages G-1 – G-9

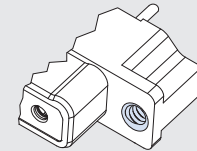
90° tails: pages G-10 – G-20

#### Application Note

##### Panel Cutout

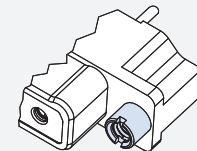
See page B-52 for recommended panel cutout dimensions for connectors.

#### HARDWARE DETAILS



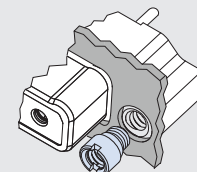
#### No Jackpost

Connector supplied with threaded holes, .150 (3.8) minimum depth. Shell sizes A-G, J, K have 6-32 UNC-2B thread, sizes H and L have 8-32 UNC-2B thread. Size M has 10-32 UNF-2B thread.



#### Female Jackposts

Non-removable female jackpost. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated.



#### R1 – R6 Rear Panel Jackposts

For rear panel mounting of connector onto .032 - .125 inch (0.81 - 3.18) thick panels. Install with threadlocking compound. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated. Supplied loosely assembled.