

# MICRO-CRIMP RECTANGULAR CONNECTORS

## Series 791 Scoop-Proof



### 240-791-007

#### Panel Plug, Filtered

- ◆ Solder cup termination
- ◆ Socket contacts



240-791-007 rear panel mount plug 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 240K pF. O-ring provides ingress protection. Machined aluminum shell has rear threads for attaching EMI banding adapter (799-016, sold separately).

- Aerospace-grade filter connector with scoop-proof duo-lobe shell
- Ceramic planar array filter element
- 39 insert arrangements with M39029-type contacts
- Environmental

| INSERT ARRANGEMENTS |                 |     |     |
|---------------------|-----------------|-----|-----|
| Insert Arrangement  | No. of Contacts |     |     |
|                     | #23             | #16 | #12 |
| 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       |                                                                                                                                         |                                       | 240-791-007S | J-33 | ME | C | C | P | B |
| Basic Part Number        | 240-791-007S                                                                                                                            | Panel Plug, Filtered, Socket Contacts |              |      |    |   |   |   |   |
| Shell Size-Insert Arr.   | See “ <i>Insert Arrangements</i> ” Table                                                                                                |                                       |              |      |    |   |   |   |   |
| Shell Finish             | <u>ME</u> Electroless Nickel                                                                                                            |                                       |              |      |    |   |   |   |   |
|                          | <u>MT</u> Nickel / PTFE                                                                                                                 |                                       |              |      |    |   |   |   |   |
|                          | <u>N</u> Olive Drab Cadmium                                                                                                             |                                       |              |      |    |   |   |   |   |
|                          | <u>TZ</u> Tin-Zinc                                                                                                                      |                                       |              |      |    |   |   |   |   |
|                          | <u>ZR</u> Black Zinc-Nickel                                                                                                             |                                       |              |      |    |   |   |   |   |
| Filter Type              | <u>C</u> C Circuit                                                                                                                      |                                       |              |      |    |   |   |   |   |
|                          | <u>P</u> Pi Circuit                                                                                                                     |                                       |              |      |    |   |   |   |   |
| Filter Capacitance Class | See “Filter <i>Capacitance Class</i> ” Table                                                                                            |                                       |              |      |    |   |   |   |   |
| Hardware Option          | <u>N</u> No Hardware <i>Threaded holes</i>                                                                                              |                                       |              |      |    |   |   |   |   |
|                          | <u>P</u> Female Jackposts                                                                                                               |                                       |              |      |    |   |   |   |   |
| 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 |                                       |              |      |    |   |   |   |   |

| FILTER 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.

| 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 f or 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         |
| ■            | O-ring: Fluorosilicone                          |
| ■            | Hardware: Stainless steel                       |

# MICRO-CRIMP RECTANGULAR CONNECTORS

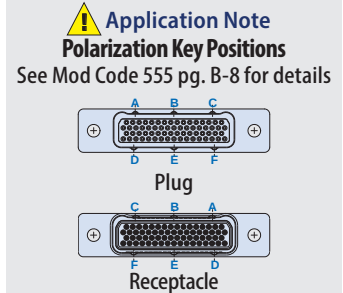
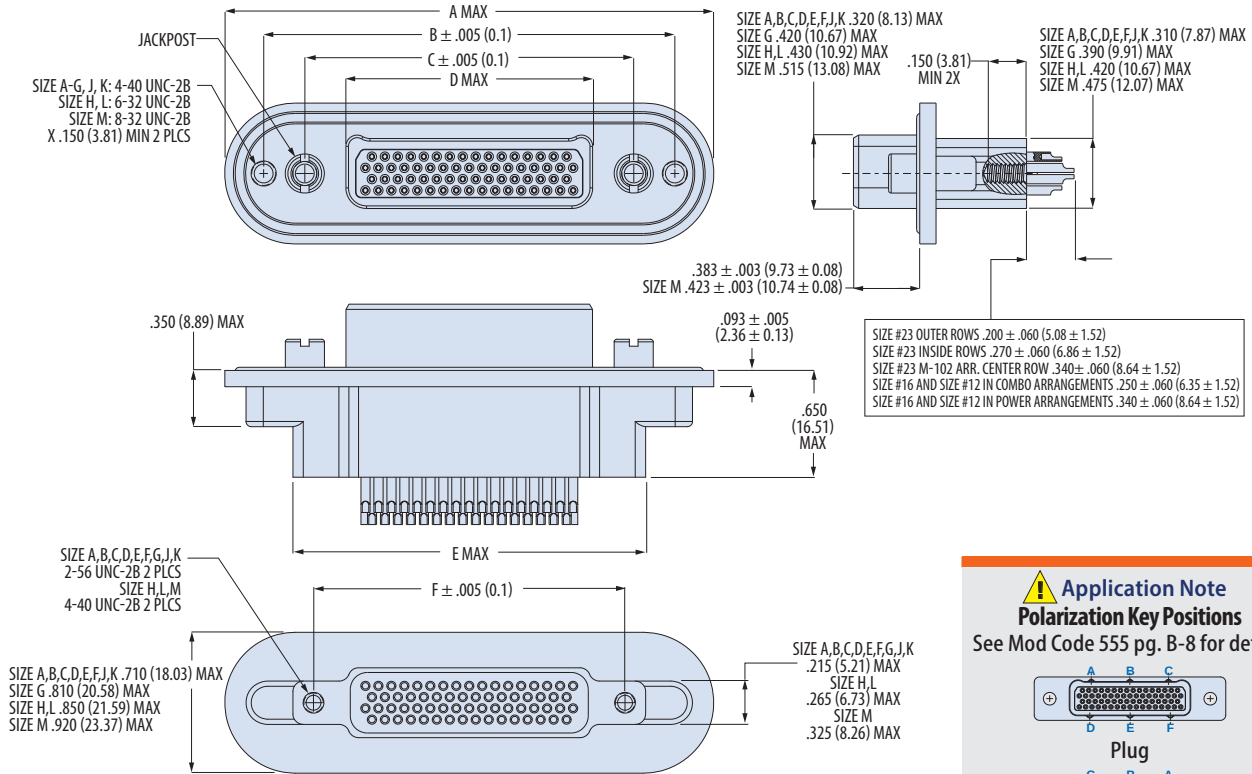
## Series 791 Scoop-Proof

**SERIES™**  
**791**  
Scoop-Proof

### 240-791-007

#### Panel Plug, Filtered

- ◆ Solder cup termination
- ◆ Socket contacts



| Shell Size | A Max |      | B $\pm .005$ (0.1) |      | C $\pm .005$ (0.1) |      | D Max |      | E Max |      | F $\pm .005$ (0.1) |      |
|------------|-------|------|--------------------|------|--------------------|------|-------|------|-------|------|--------------------|------|
|            | in    | mm   | in                 | mm   | in                 | mm   | in    | mm   | in    | mm   | in                 | mm   |
| A          | 1.565 | 39.8 | 1.150              | 29.2 | .750               | 19.1 | .415  | 10.5 | .760  | 19.3 | .565               | 14.4 |
| B          | 1.715 | 43.6 | 1.300              | 33.0 | .900               | 22.9 | .565  | 14.4 | .910  | 23.1 | .715               | 18.2 |
| C          | 1.865 | 47.4 | 1.450              | 36.8 | 1.050              | 26.7 | .715  | 18.2 | 1.060 | 26.9 | .865               | 22.0 |
| D          | 1.940 | 49.3 | 1.525              | 38.7 | 1.125              | 28.6 | .790  | 20.1 | 1.160 | 29.5 | .965               | 24.5 |
| E          | 2.090 | 53.1 | 1.675              | 42.5 | 1.275              | 32.4 | .940  | 23.9 | 1.310 | 33.3 | 1.115              | 28.3 |
| F          | 2.240 | 56.9 | 1.825              | 46.4 | 1.425              | 36.2 | 1.090 | 27.7 | 1.460 | 37.1 | 1.265              | 32.1 |
| G          | 2.200 | 55.9 | 1.785              | 45.3 | 1.388              | 35.3 | 1.052 | 26.7 | 1.410 | 35.8 | 1.215              | 30.9 |
| H          | 2.835 | 72.0 | 2.375              | 60.3 | 1.900              | 48.3 | 1.442 | 36.6 | 2.045 | 51.9 | 1.800              | 45.7 |
| J          | 2.615 | 66.4 | 2.200              | 55.9 | 1.800              | 45.7 | 1.465 | 37.2 | 1.810 | 46.0 | 1.615              | 41.0 |
| K          | 2.990 | 75.9 | 2.575              | 65.4 | 2.175              | 55.2 | 1.840 | 46.7 | 2.210 | 56.1 | 2.015              | 51.2 |
| L          | 3.075 | 78.1 | 2.611              | 66.3 | 2.136              | 54.3 | 1.678 | 42.6 | 2.281 | 57.9 | 2.036              | 51.7 |
| M          | 3.345 | 85.0 | 2.824              | 71.7 | 2.200              | 55.9 | 1.745 | 44.3 | 2.445 | 62.1 | 2.200              | 55.9 |

| HARDWARE DETAILS                                                                                                                                       |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>N</b> No Hardware</p> <p>Tapped holes.<br/>Size A-G, J, K = 6-32 UNC-2B<br/>H, L = 8-32 UNC-2B<br/>M = 10-32 UNF-2B<br/>150 (3.8) min. depth</p> | <p><b>P</b> Female Jackposts</p> <p>Jackposts are non-removable.<br/>Size A-G, J, K = 4-40 UNC-2B<br/>H, L = 6-32 UNC-2B<br/>M = 8-32 UNC-2B</p> |

**Application Note**  
**Panel Cutout**  
See page B-53 for panel cutout dimensions.

**Application Note**  
**EMI Banding Backshell 799-016**  
See page F-32 for backshell ordering information.