



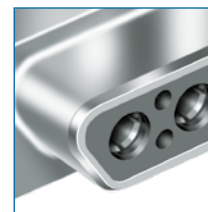
**13 Amp Current Rating** – Combo Micro-D's combine the size and weight advantages of a Micro -D connector with the added ability to handle higher power needs.

**Solder Cup Contacts** – Gold plated beryllium copper power contacts accommodate up to #16 AWG stranded wire. Signal contacts accept up to #26 AWG wire.

**Mil Spec Performance** – Glenair combo Micro-D connectors comply with the requirements of MIL-DTL-83513 and feature excellent resistance to high temperatures, shock and vibration.

## HOW TO ORDER COMBO SOLDER CUP MICRO-D

| Series                    | Shell Finish      | Shell Size and Insert Arrangement | Termination Type | Hardware |    |
|---------------------------|-------------------|-----------------------------------|------------------|----------|----|
| GMPM                      | 1 – Cadmium       | B112P                             | S – Solder Cup   | B        |    |
|                           | 2 – Nickel        | B112R                             |                  | P        |    |
|                           | 4 – Black Anodize | D112P                             |                  | M        |    |
|                           | 5 – Gold          | D112R                             |                  | M1       |    |
|                           | 6 – Chem Film     | Stainless Steel Shell             |                  | D113P    | S  |
|                           |                   |                                   |                  | D113R    | S1 |
|                           |                   |                                   |                  | E113P    | L  |
|                           |                   |                                   |                  | E113R    | K  |
|                           |                   |                                   |                  | G101P    | F  |
|                           |                   |                                   |                  | G101R    | R  |
|                           | G103P             |                                   |                  |          |    |
|                           | G103R             |                                   |                  |          |    |
|                           | G111P             |                                   |                  |          |    |
|                           | G111R             |                                   |                  |          |    |
| <b>Sample Part Number</b> |                   |                                   |                  |          |    |
| GMPM                      | 2                 | – G111P                           | S                | B        |    |



G103P

**Plug Connector**  
with male TwistPin signal contacts and female 2mm power contacts



G103R

**Receptacle Connector**  
with female TwistPin signal contacts and male 2mm power contacts

## MICRO-D MOUNTING HARDWARE

| B   | P  | M  | M1  | S   | S1   | L   | K   | F  | R   |
|---|--|--|---|---|--|---|---|--|---|
|   |  |  |   |   |  |   |   |  |   |
| <b>Thru-Hole</b><br>Order Hardware Separately | <b>Jackpost</b><br>Removable Includes Nut and Washer | <b>Jackcrew</b><br>Hex Head Removable E-ring | <b>Jackcrew</b><br>Hex Head Removable E-ring Extended | <b>Jackcrew</b><br>Slot Head Removable E-ring | <b>Jackcrew</b><br>Slot Head Removable E-ring Extended | <b>Jackcrew</b><br>Hex Head Non-Removable | <b>Jackcrew</b><br>Slot Head Non-Removable Extended | <b>Float Mount</b><br>For Front Panel Mounting | <b>Float Mount</b><br>For Rear Panel Mounting |

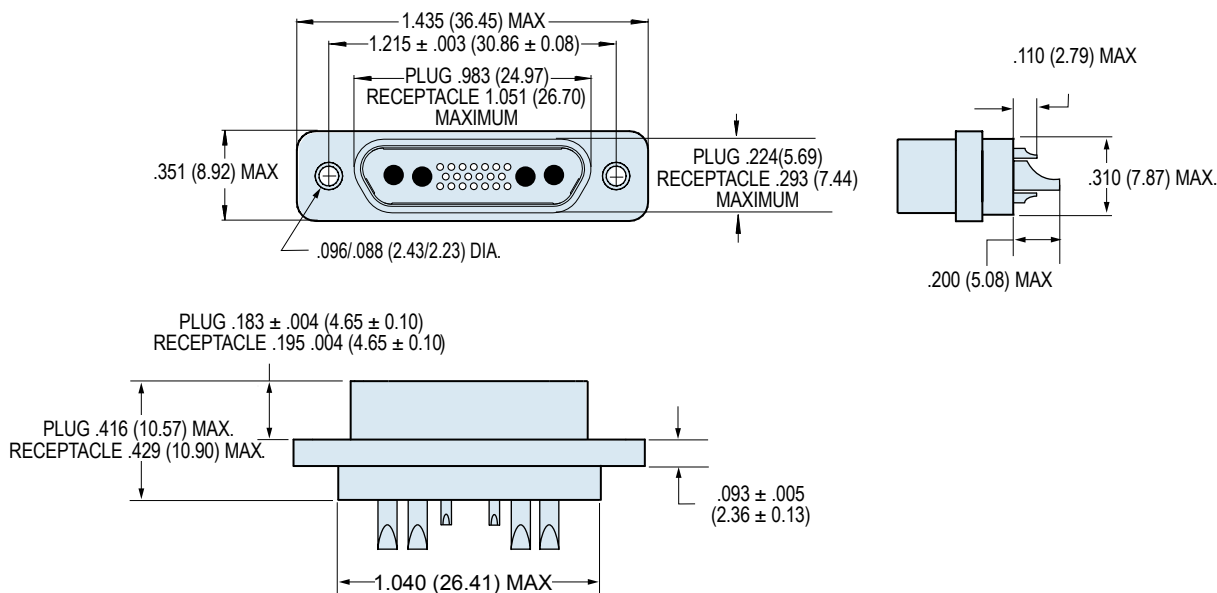
## PERFORMANCE SPECIFICATIONS

|                                 |  |
|---------------------------------|--|
| Current Rating                  | 3 AMP Signal Contacts<br>13 AMP .079" (2mm) Power Contacts |
| Dielectric Withstanding Voltage | 600 VAC Sea Level<br>150 VAC 70,000 Feet                   |
| Insulation Resistance           | 5000 Megohms Minimum                                       |
| Contact Resistance              | 8 Milliohms Maximum  |
| Low Level Contact Resistance    | 32 Milliohms Max. Signal Contacts                          |
| Magnetic Permeability           | 2 $\mu$ Maximum  |
| Operating Temperature           | -55° C. to +150° C.  |
| Shock                           | 50 g.  |
| Vibration                       | 20 g.  |
| Outgassing                      | Meets NASA Outgassing Requirements                         |
| Mating Force                    | (10 Ounces) X (# of Contacts)                              |

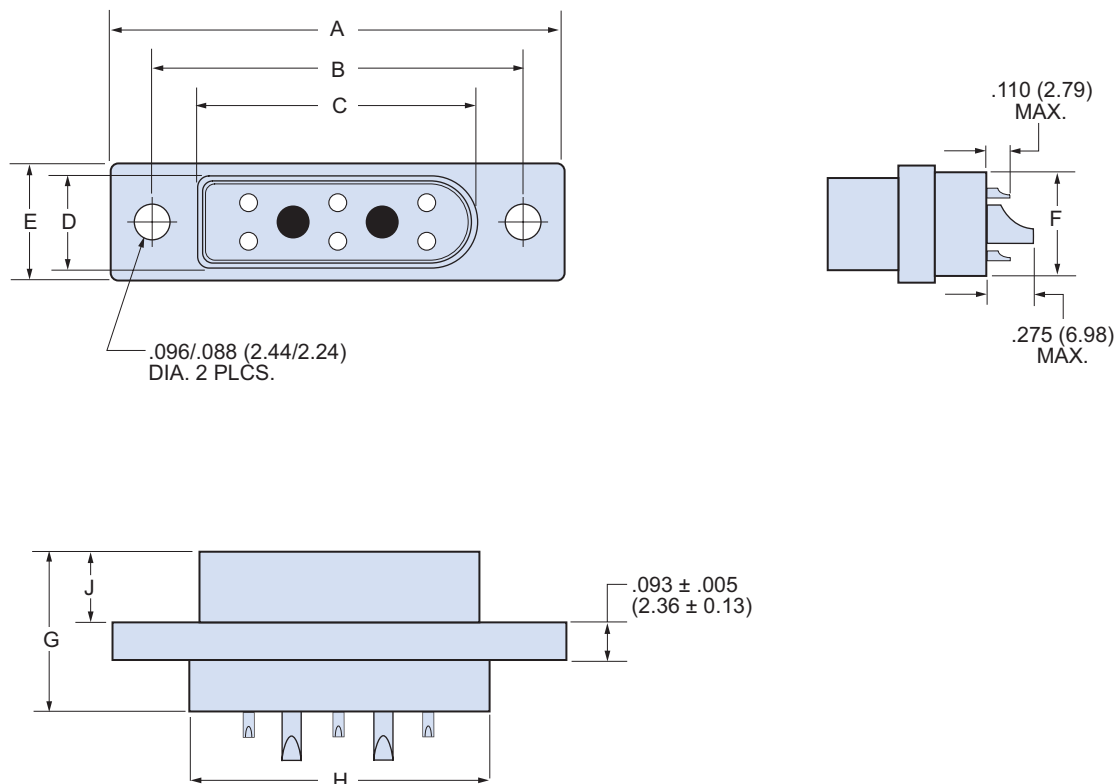
## MATERIALS AND FINISHES

|                          |   |
|--------------------------|---|
| Connector Shell          | Aluminum Alloy 6061. See Ordering Info for Plating Options.   |
| Insulator                | Liquid Crystal Polymer (LCP)                                  |
| Interfacial Seal         | Flourosilicone Rubber, Blue                                   |
| Pin Contact, TwistPin    | Beryllium Copper With 50 Microinches Gold over Nickel Plating |
| Socket Contact, TwistPin | Copper Alloy With 50 Microinches Gold Over Nickel Plating     |
| Pin Contact, 2mm. Power  | Brass With 50 Microinches Gold Over Nickel Plating            |
| Skt. Contact, 2mm. Power | Beryllium Copper With 50 Microinches Gold Over Nickel Plating |
| Hardware                 | 300 Series Stainless Steel                                    |
| PCB Terminals            | Gold-Plated Copper Alloy, Solder Dipped                       |
| Encapsulant              | Epoxy Resin Hysol EE4215                                      |

## DIMENSIONS FOR SHELL SIZE G CONNECTORS



Dimensions for Shell Size G Connectors  
Layouts G101, G103, G111



Dimensions for Shell Size B, D, AND E Connectors  
Layouts B112, D112, D113, and E113

## COMBO SOLDER CUP CONNECTOR DIMENSIONS

| Layout       | A Max. |       | B          |            | C Max. |       | D Max. |      | E Max. |      | F Max. |      | G Max. |       | H Max. |       | J Max. |      |
|--------------|--------|-------|------------|------------|--------|-------|--------|------|--------|------|--------|------|--------|-------|--------|-------|--------|------|
|              | In.    | mm.   | In. ± .003 | mm. ± 0.08 | In.    | mm.   | In.    | mm.  | In.    | mm.  | In.    | mm.  | In.    | mm.   | In.    | mm.   | In.    | mm.  |
| <b>B112P</b> | .935   | 23.75 | .715       | 18.16      | .481   | 12.21 | .242   | 6.15 | .315   | 8.00 | .270   | 6.86 | .416   | 10.57 | .550   | 13.97 | .184   | 4.68 |
| <b>B112R</b> | .935   | 23.75 | .715       | 18.16      | .547   | 13.92 | .315   | 8.00 | .315   | 8.00 | .270   | 6.86 | .429   | 10.90 | .550   | 13.97 | .197   | 5.01 |
| <b>D112P</b> | 1.185  | 30.01 | .965       | 24.51      | .731   | 18.56 | .242   | 6.15 | .315   | 8.00 | .270   | 6.86 | .416   | 10.57 | .800   | 20.32 | .184   | 4.68 |
| <b>D112R</b> | 1.185  | 30.01 | .965       | 24.51      | .798   | 20.27 | .315   | 8.00 | .315   | 8.00 | .270   | 6.86 | .429   | 10.90 | .800   | 20.32 | .197   | 5.01 |
| <b>D113P</b> | 1.185  | 30.01 | .965       | 24.51      | .731   | 18.56 | .242   | 6.15 | .315   | 8.00 | .270   | 6.86 | .416   | 10.57 | .800   | 20.32 | .184   | 4.68 |
| <b>D113R</b> | 1.185  | 30.01 | .965       | 24.51      | .798   | 20.27 | .315   | 8.00 | .315   | 8.00 | .270   | 6.86 | .429   | 10.90 | .800   | 20.32 | .197   | 5.01 |
| <b>E113P</b> | 1.335  | 33.91 | 1.115      | 28.32      | .881   | 22.37 | .242   | 6.15 | .315   | 8.00 | .270   | 6.86 | .416   | 10.57 | .950   | 24.13 | .184   | 4.68 |
| <b>E113R</b> | 1.335  | 33.91 | 1.115      | 28.32      | .948   | 24.08 | .315   | 8.00 | .315   | 8.00 | .270   | 6.86 | .429   | 10.90 | .950   | 24.13 | .197   | 5.01 |