



# GMPM Combo Micro-D for High Power Applications Solder Cup



**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.

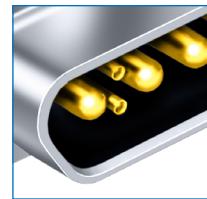
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| How To Order Combo Solder Cup Micro-D |   |
|---------------------------------------|---|
| Sample Part Number                    | GMPM 2 -G111 P S B  |
| Series                                | GMPM  |
| Shell Finish                          | Aluminum Shell<br>1 - Cadmium<br>2 - Nickel<br>4 - Black Anodize<br>5 - Gold<br>6 - Chem Film<br>33 - Nickel-PTFE |
|                                       | Stainless Steel Shell<br>3 - Passivated   |
| Shell Size and Insert Arrangement     | B112, D112, D113, E112, E113, G101, G103, G111, J112<br>See Insert Arrangements on Page F-2                       |
| Shell Style                           | P - Plug R - Receptacle   |
| Termination Type                      | S - Solder Cup  |
| Hardware                              | B, P, M, M1, S, S1, L, K, F, R, H   |



G103P

**Plug Connector**  
with TwistPin signal contacts and socket 2mm power contacts



G103R

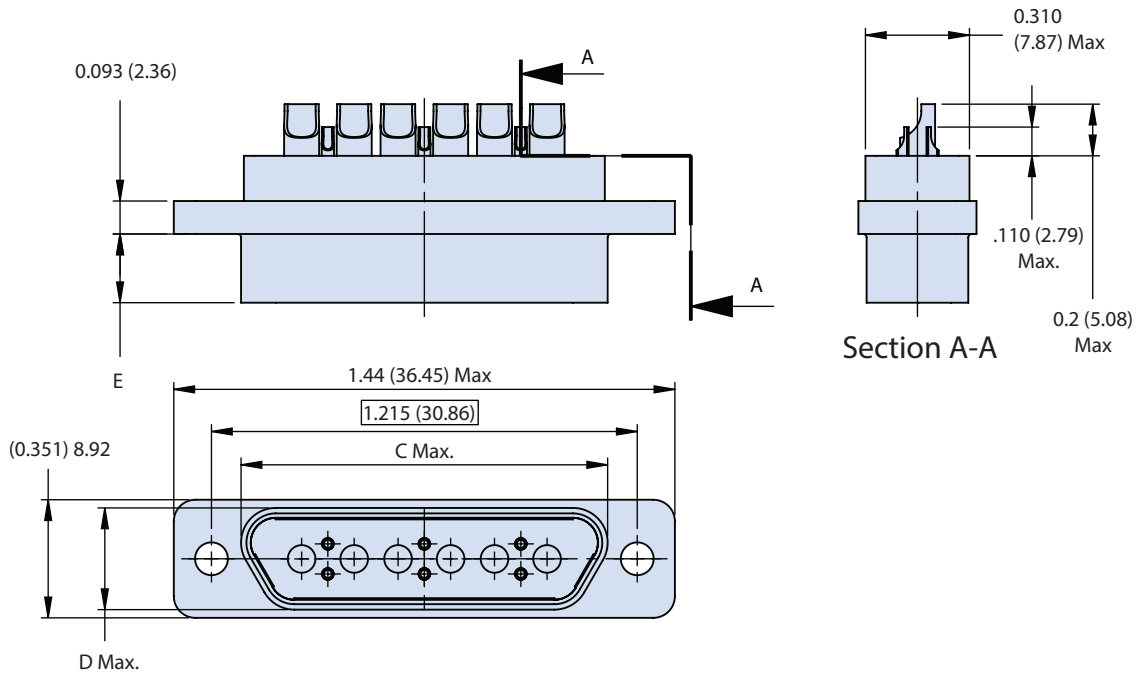
**Receptacle Connector**  
with socket TwistPin signal contacts and male 2mm power contacts

| Table I: Mounting Hardware |                |                          |                                    |                           |                                     |  |  |                                      |                                     |                       |
|----------------------------|----------------|--------------------------|------------------------------------|---------------------------|-------------------------------------|--|--|--------------------------------------|-------------------------------------|-----------------------|
| B                          | P              | M                        | M1                                 | S                         | S1                                  | L                                      | K  | F                                    | R                                   | H                     |
|                            |                |                          |                                    |                           |                                     |  |  |                                      |                                     |                       |
| Thru-Hole                  | Jackpost #2-56 | Hex Head Jackscrew #2-56 | Hex Head Jackscrew, Extended #2-56 | Slot Head Jackscrew #2-56 | Slot Head Jackscrew, Extended #2-56 | Hex Head Jackscrew Non-Removable #2-56 | Slot Head Jackscrew Non-Removable Extended | Float Mount For Front Panel Mounting | Float Mount For Rear Panel Mounting | Threaded Insert #2-56 |

# GMPM Combo Micro-D for High Power Applications Solder Cup



Table II: Dimensions for Shell Size G Connectors



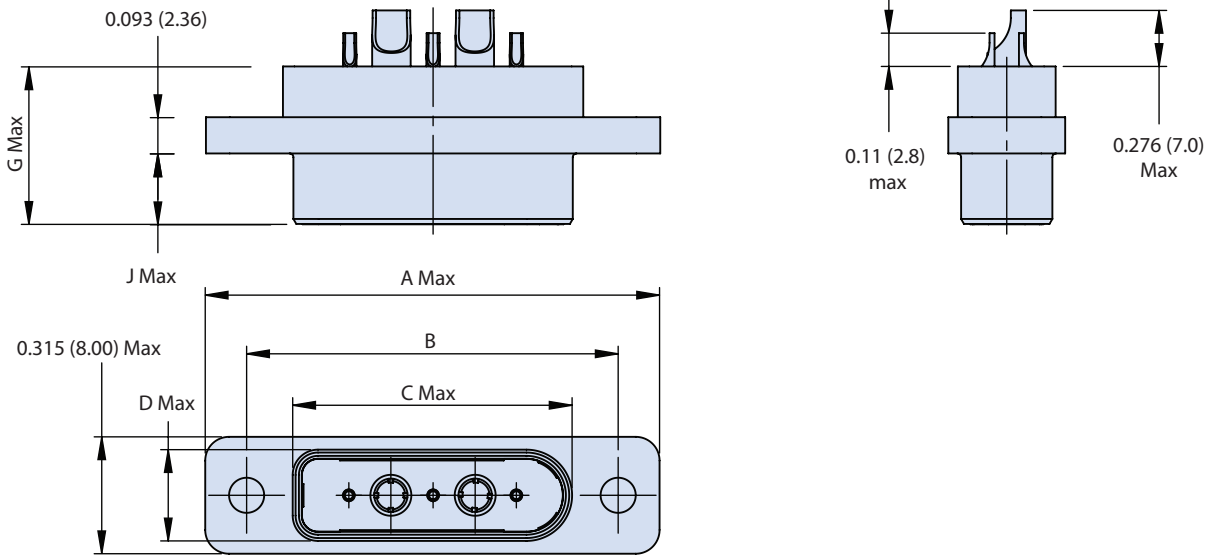
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| Layout       | C Max |       | D Max |      | E ±0.10 |      |
|--------------|-------|-------|-------|------|---------|------|
|              | In.   | mm.   | In.   | mm.  | In.     | mm.  |
| <b>G101P</b> | 0.983 | 24.97 | 0.228 | 5.79 | 0.183   | 4.65 |
| <b>G101R</b> | 1.051 | 26.70 | 0.296 | 7.52 | 0.195   | 4.95 |
| <b>G103P</b> | 0.983 | 24.97 | 0.228 | 5.79 | 0.183   | 4.65 |
| <b>G103R</b> | 1.051 | 26.70 | 0.296 | 7.52 | 0.195   | 4.95 |
| <b>G111P</b> | 0.983 | 24.97 | 0.228 | 5.79 | 0.183   | 4.65 |
| <b>G111R</b> | 1.051 | 26.70 | .296  | 7.52 | 0.195   | 4.95 |

| 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 Signal Contacts                        |
| Low Level Contact Resistance    | 32 Milliohms Maximum Signal Contacts                       |
| Magnetic Permeability           | 2 μ Maximum  |
| Operating Temperature           | -55° C. to +150° C.  |
| Shock                           | 50 g.  |
| Vibration                       | 20 g.  |
| Mating Force                    | (10 Ounces) X (# of Contacts)                              |
| Power Contacts                  | (28 oz) x (# of contacts)                                  |

| Materials and Finishes   |   |
|--------------------------|---|
| Connector Shell          | Aluminum Alloy 6061. See Ordering Info for Plating Options.   |
| Insulator                | Liquid Crystal Polymer (LCP)                                  |
| Interfacial Seal         | Fluorosilicone Rubber, Blue                                   |
| Pin Contact, TwistPin    | Copper Alloy with 50 Microinches Gold over Nickel Plating     |
| Socket Contact           | 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   |

Table III: Dimensions for Shell Size B, D, E and J Connectors



F

| Layout       | A Max. |       | B             |               | C Max. |       | D Max. |      | G Max. |       | J Max. |      |
|--------------|--------|-------|---------------|---------------|--------|-------|--------|------|--------|-------|--------|------|
|              | In.    | mm.   | In.<br>± .003 | mm.<br>± 0.08 | In.    | mm.   | In.    | mm.  | In.    | mm.   | In.    | mm.  |
| <b>B112P</b> | .935   | 23.75 | .715          | 18.16         | .481   | 12.21 | .242   | 6.15 | .416   | 10.57 | .184   | 4.68 |
| <b>B112R</b> | .935   | 23.75 | .715          | 18.16         | .547   | 13.92 | .315   | 8.00 | .429   | 10.90 | .197   | 5.01 |
| <b>D112P</b> | 1.185  | 30.10 | .965          | 24.51         | .731   | 18.56 | .242   | 6.15 | .416   | 10.57 | .184   | 4.68 |
| <b>D112R</b> | 1.185  | 30.10 | .965          | 24.51         | .798   | 20.27 | .315   | 8.00 | .429   | 10.90 | .197   | 5.01 |
| <b>D113P</b> | 1.185  | 30.10 | .965          | 24.51         | .731   | 18.56 | .242   | 6.15 | .416   | 10.57 | .184   | 4.68 |
| <b>D113R</b> | 1.185  | 30.10 | .965          | 24.51         | .798   | 20.27 | .315   | 8.00 | .429   | 10.90 | .197   | 5.01 |
| <b>E112P</b> | 1.335  | 33.91 | 1.115         | 28.32         | .881   | 22.37 | .242   | 6.15 | .416   | 10.57 | .184   | 4.68 |
| <b>E112R</b> | 1.335  | 39.91 | 1.115         | 28.32         | .948   | 24.08 | .315   | 8.00 | .429   | 10.90 | .197   | 5.01 |
| <b>E113P</b> | 1.335  | 33.91 | 1.115         | 28.32         | .881   | 22.37 | .242   | 6.15 | .416   | 10.57 | .184   | 4.68 |
| <b>E113R</b> | 1.335  | 33.91 | 1.115         | 28.32         | .948   | 24.08 | .315   | 8.00 | .429   | 10.90 | .197   | 5.01 |
| <b>J112P</b> | 1.835  | 46.61 | 1.615         | 41.02         | 1.381  | 35.07 | .242   | 6.15 | .416   | 10.57 | .184   | 4.68 |
| <b>J112R</b> | 1.835  | 46.61 | 1.615         | 41.02         | 1.448  | 36.78 | .315   | 8.00 | .429   | 10.90 | .197   | 5.01 |

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