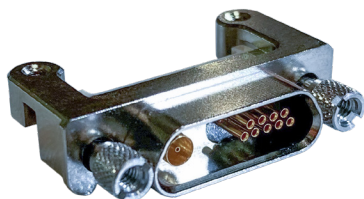


## GMMD-HRE GMMD-HRPE

Horizontal edge-launched panel-mount receptacle  
Horizontal edge-launched panel-sealed receptacle

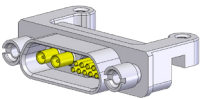
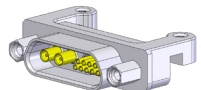


| HOW TO ORDER                            |                                                                                                                                                                                                                                   |             |             |            |           |          |            |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|------------|-----------|----------|------------|
| Sample Part Number                      |                                                                                                                                                                                                                                   | <b>GMMD</b> | <b>-HRE</b> | <b>2C9</b> | <b>-2</b> | <b>P</b> | <b>M 1</b> |
| Series                                  | <b>GMMD</b> = Glenair Modular High-Speed Micro-D                                                                                                                                                                                  |             |             |            |           |          |            |
| Connector Format                        | <b>-HRE</b> = Horizontal edge-launched receptacle<br><b>-HRPE</b> = Horizontal panel-sealed edge launched recept.                                                                                                                 |             |             |            |           |          |            |
| Contact Arrangement                     | See Table. Consult factory for additional arrangements.                                                                                                                                                                           |             |             |            |           |          |            |
| Shell Material / Finish                 | <b>-2</b> = Aluminum / Electroless Nickel <b>-5</b> = Aluminum / Gold<br><b>-3</b> = Stainless Steel / Passivated <b>-6</b> = Aluminum/Alchromate<br><b>-7</b> = Aluminum / Nickel-PTFE <b>-8</b> = Aluminum / Zinc-Nickel, Black |             |             |            |           |          |            |
| Jackpost Options                        | Specify per Jackpost / Hardware Options in table below                                                                                                                                                                            |             |             |            |           |          |            |
| Board-Mount Options                     | Specify per Board-Mount Thread Options in table below                                                                                                                                                                             |             |             |            |           |          |            |
| Sealing Options for HRPE (omit for HRE) | <b>0</b> = No O-ring <b>1</b> = Fluorosilicone<br><b>2</b> = Passivated silver-plated aluminum-filled fluorosilicone<br><b>3</b> = Nickel-plated aluminum-filled fluorosilicone                                                   |             |             |            |           |          |            |

### CONNECTOR FEATURES

- One of the smallest rugged multiway RF coax connectors available
- 50Ω on 3.18mm pitch for combo arrangements
- 50Ω on 2.54 pitch for coax-only arrangements
- Shield isolated from connector shell
- PCB edge-launched for optimized for >20GHz high-bandwidth performance
- Compatible with RG178, semi rigid and flexible 047 cables and 086 for 50Ω

| CONNECTOR FORMAT                                                         |                                                                                        |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <p><b>GMMD-HRE</b><br/>Horizontal PCB-Mount Edge-Launched Receptacle</p> | <p><b>GMMD-HRPE</b><br/>Horizontal PCB-Mount Panel-Sealed Edge-Launched Receptacle</p> |

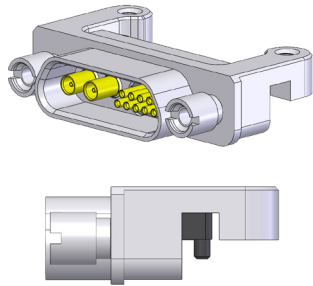
| JACKPOST / HARDWARE OPTIONS and BOARD-MOUNT THREAD OPTIONS                                                                                                                                                                                  |                                                                                     |                                                                                      |                 |                 |                           |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------|-----------------|---------------------------|-----------|
| For Rear panel mount jackpost, specify Jackpost option code <b>T, U, V, W, X, or Y</b> per required panel thickness, and board-mount thread option.<br>For Factory installed jackpost, specify code <b>S</b> and board-mount thread option. |                                                                                     |                                                                                      | Jackpost option |                 | Board-Mount Thread Option |           |
|                                                                                                                                                                                                                                             |                                                                                     |                                                                                      | Code            | Panel Thickness |                           |           |
| Rear panel mount jackpost                                                                                                                                                                                                                   |  |  | <b>T</b>        | 2.4mm           | <b>M</b>                  | M2 metric |
|                                                                                                                                                                                                                                             |                                                                                     |                                                                                      | <b>U</b>        | 2.0mm           |                           |           |
|                                                                                                                                                                                                                                             |                                                                                     |                                                                                      | <b>V</b>        | 1.6mm           |                           |           |
|                                                                                                                                                                                                                                             |                                                                                     |                                                                                      | <b>W</b>        | 1.2mm           | <b>U</b>                  | #2-56 UNC |
|                                                                                                                                                                                                                                             |                                                                                     |                                                                                      | <b>X</b>        | 0.8mm           |                           |           |
|                                                                                                                                                                                                                                             |                                                                                     |                                                                                      | <b>Y</b>        | 0.6mm           |                           |           |
| Factory installed jackpost                                                                                                                                                                                                                  |  |  | <b>S</b>        |                 | <b>M</b>                  | M2 metric |
|                                                                                                                                                                                                                                             |                                                                                     |                                                                                      |                 |                 | <b>U</b>                  | #2-56 UNC |

| GMMD COAX AND COMBO COAX CONTACT ARRANGEMENTS |            |               |              |
|-----------------------------------------------|------------|---------------|--------------|
| Code                                          | Shell Size | Coax Contacts | #24 Contacts |
| <b>2C</b>                                     | 9          | 2x50Ω         |              |
| <b>4C</b>                                     | 21         | 4x50Ω         |              |
| <b>6C</b>                                     | 25         | 6x50Ω         |              |
| <b>8C</b>                                     | 31         | 8x50Ω         |              |
| <b>16C</b>                                    | 67         | 16x50Ω        |              |
| <b>1C9</b>                                    | 15         | 1x50Ω         | 9            |
| <b>2C9</b>                                    | 21         | 2x50Ω         | 9            |
| <b>1V9</b>                                    | 21         | 1x75Ω         | 9            |
| <b>2V9</b>                                    | 31         | 2x75Ω         | 9            |
| <b>4V</b>                                     | 21         | 4x75Ω         |              |

## GMMD-HRE

### Horizontal edge-launched panel-mount receptacle

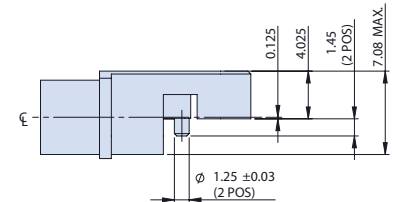
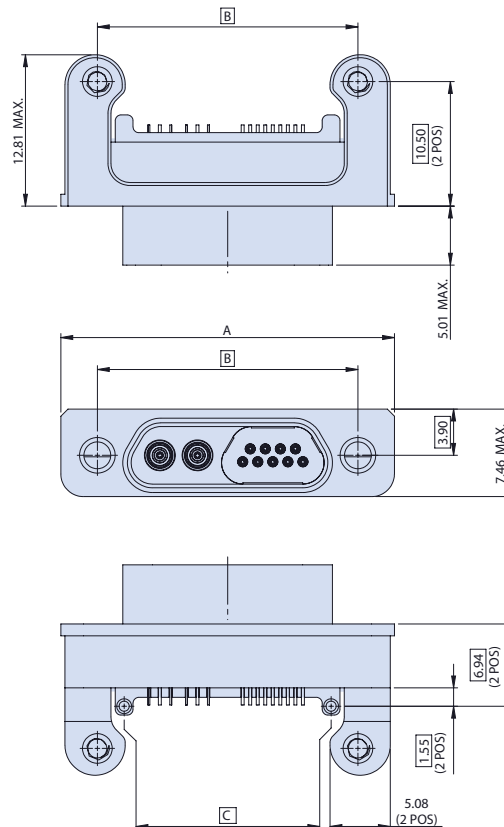
#### GMMD-HRE HORIZONTAL EDGE-LAUNCHED PCB-MOUNT CONNECTOR DIMENSIONS



#### GMMD-HRE

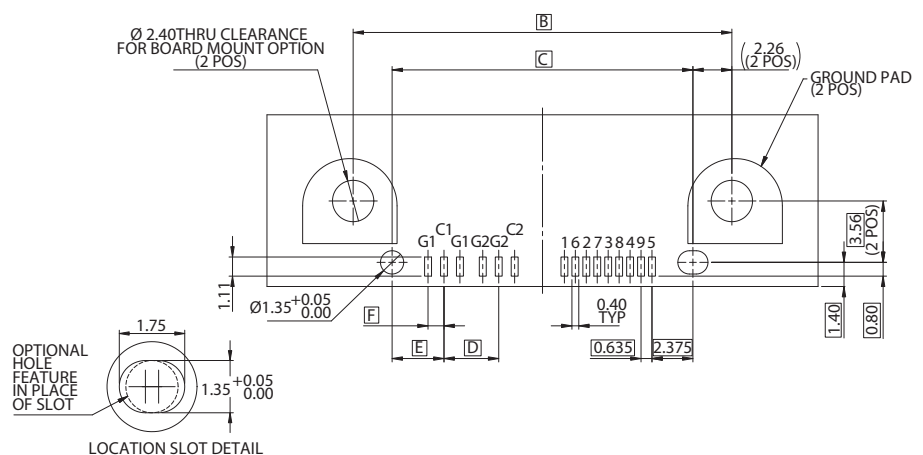
Horizontal PCB-Mount Edge-Launched Receptacle

| Shell size | A<br>(mm) | B<br>(mm) | C<br>(mm) |
|------------|-----------|-----------|-----------|
| 9          | 20.56     | 14.35     | 9.83      |
| 15         | 24.37     | 18.16     | 13.64     |
| 21         | 28.18     | 21.97     | 17.45     |
| 25         | 30.72     | 24.51     | 19.99     |
| 31         | 34.53     | 28.32     | 23.80     |
| 51-2       | 47.23     | 41.02     | 36.50     |
| 67         | 57.39     | 51.18     | 46.66     |



#### PCB MOUNTING PATTERN FOR GMMD-HRE HORIZONTAL EDGE-LAUNCHED PCB-MOUNT CONNECTOR (SMT MOUNT - COMPONENT SIDE)

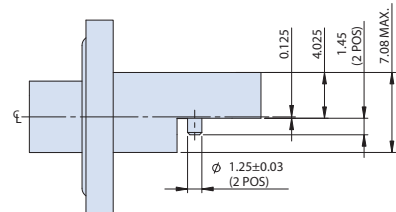
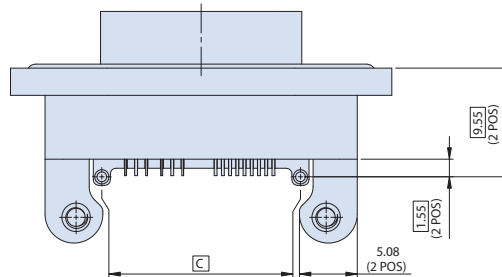
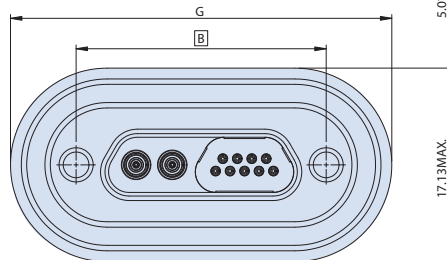
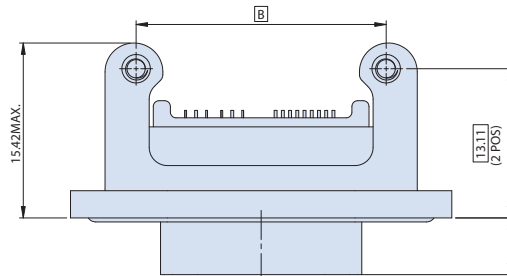
|              |            |             | D     | E     | F     |
|--------------|------------|-------------|-------|-------|-------|
| 50ohm hybrid |            |             | 3.175 | 3.01  | 0.925 |
| 75ohm hybrid |            |             | 4.15  | 3.53  | 1.325 |
|              | Shell size | Arrangement |       |       |       |
| 50ohm only   | 9          | 2C          | 2.54  | 3.645 | 0.925 |
|              | 21         | 4C          | 2.54  | 4.915 | 0.925 |
|              | 25         | 6C          | 2.54  | 3.645 | 0.925 |
|              | 37         | 8C          | 2.54  | 3.01  | 0.925 |
|              | 51-2       | 12C         | 2.54  | 4.28  | 0.925 |
|              | 67         | 16C         | 2.54  | 4.28  | 0.925 |
| 75ohm only   | 9          | 2V          | 3.5   | 3.165 | 1.325 |
|              | 15         | 3V          | 3.5   | 3.32  | 1.325 |
|              | 21         | 4V          | 3.5   | 3.475 | 1.325 |



## Horizontal edge-launched panel-sealed receptacle

# GMMD MODULAR MICRO-D RF MULTI-PORT CONNECTORS

| Shell size  | B     | C     | G     |
|-------------|-------|-------|-------|
|             | (mm)  | (mm)  | (mm)  |
| <b>9</b>    | 14.35 | 9.83  | 25.88 |
| <b>15</b>   | 18.16 | 13.64 | 29.69 |
| <b>21</b>   | 21.97 | 17.45 | 33.50 |
| <b>25</b>   | 24.51 | 19.99 | 36.04 |
| <b>31</b>   | 28.32 | 23.80 | 39.85 |
| <b>37</b>   | 32.13 | 27.61 | 43.66 |
| <b>51-2</b> | 41.02 | 36.50 | 52.55 |
| <b>67</b>   | 51.18 | 46.66 | 62.71 |



|              |            |             | D     | E     | F     |
|--------------|------------|-------------|-------|-------|-------|
| 50ohm hybrid |            |             | 3.175 | 3.01  | 0.925 |
| 75ohm hybrid |            |             | 4.15  | 3.53  | 1.325 |
|              | Shell size | Arrangement |       |       |       |
| 50ohm only   | 9          | 2C          | 2.54  | 3.645 | 0.925 |
|              | 21         | 4C          | 2.54  | 4.915 | 0.925 |
|              | 25         | 6C          | 2.54  | 3.645 | 0.925 |
|              | 37         | 8C          | 2.54  | 3.01  | 0.925 |
|              | 51-2       | 12C         | 2.54  | 4.28  | 0.925 |
|              | 67         | 16C         | 2.54  | 4.28  | 0.925 |
| 75ohm only   | 9          | 2V          | 3.5   | 3.165 | 1.325 |
|              | 15         | 3V          | 3.5   | 3.32  | 1.325 |
|              | 21         | 4V          | 3.5   | 3.475 | 1.325 |

