**Series MBR**

**Micro-D Metal Shell Right Angle P.C.B. Mount**

<table>
<thead>
<tr>
<th>No. of Contacts</th>
<th>A Max</th>
<th>B Max</th>
<th>C Max</th>
<th>D Max</th>
<th>E ±.01</th>
<th>F ±.01</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>.787</td>
<td>.565</td>
<td>.325</td>
<td>.425</td>
<td>.25</td>
<td>.23</td>
</tr>
<tr>
<td>15</td>
<td>.937</td>
<td>.715</td>
<td>.325</td>
<td>.425</td>
<td>.25</td>
<td>.13</td>
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<tr>
<td>21</td>
<td>1.087</td>
<td>.865</td>
<td>.325</td>
<td>.425</td>
<td>.25</td>
<td>.13</td>
</tr>
<tr>
<td>25</td>
<td>1.187</td>
<td>.965</td>
<td>.325</td>
<td>.425</td>
<td>.25</td>
<td>.13</td>
</tr>
<tr>
<td>31</td>
<td>1.337</td>
<td>1.115</td>
<td>.325</td>
<td>.525</td>
<td>.25</td>
<td>.13</td>
</tr>
<tr>
<td>37</td>
<td>1.487</td>
<td>1.265</td>
<td>.325</td>
<td>.525</td>
<td>.25</td>
<td>.13</td>
</tr>
<tr>
<td>51</td>
<td>1.435</td>
<td>1.215</td>
<td>.360</td>
<td>.660</td>
<td>.30</td>
<td>.15</td>
</tr>
<tr>
<td>69</td>
<td>1.735</td>
<td>1.515</td>
<td>.360</td>
<td>.650</td>
<td>.30</td>
<td>.15</td>
</tr>
<tr>
<td>100</td>
<td>2.170</td>
<td>1.800</td>
<td>.420</td>
<td>1.010</td>
<td>.40</td>
<td>.20</td>
</tr>
</tbody>
</table>

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**Jackpost**

1. **Jackpost** .185
2. **Jackpost** .175
3. **Jackpost** #2-56 UNC-2B
4. **Jackpost** #4-40 UNC-2B

**Tolerance:** XXX ±.005

**Title:** Micro-D Metal Shell Right Angle P.C.B. Mount

**SHT:** 1 of 4

**Dwg. No.:** MBR

**Rev:** T

**Contact Options:**

- Through hole: #4-40 THREADED INSERT (OPTIONAL)
- Thru hole: #2-56 THREADED INSERT (OPTIONAL)
- Washout area: .096 + .003 DIA THRU HOLE

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888.265.9162
### 1. MATERIALS:
- Shell: Aluminum Alloy or Stainless Steel
- Insulator/Backshell: Glass Filled Thermoplastic
- Pin/Socket Contact: Copper Alloy
- Interfacial Seal: Fluorosilicone Blend

### 2. FINISH:
- Shell: See options above
- Pin/Socket Contact: Gold over Nickel

### 3. SPECIFICATIONS:
- **Current Rating**: 3 Amps Max
- **Temperature Rating**: -55° C to +125° C
- **Insulation Resistance**: 5000 Megohms Min
- **Dwv at Sea Level**: 600 VAC
- **Dwv at 70,000 Ft Altitude**: 150 VAC
- **Contact Resistance**: 65 mV Drop Max at 2.5 Amps
- **Contact Retention**: 5 lb Minimum Axial Load
- **Engagement Force**: 6 oz Max
- **Separation Force**: 0.5 oz Min

### 4. ADDITIONAL INFORMATION:
- Design and performance in general accordance with M83513 where applicable.
- Contact Cristek for RoHS and other configurations.

### TABLE:
<table>
<thead>
<tr>
<th>Micro-D Metal Shell</th>
<th>Tolerance: XXX ±0.005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender: 1 = Receptacle, Socket Contacts, 2 = Plug, Pin Contacts</td>
<td></td>
</tr>
<tr>
<td>Number of Contacts: 009 025 051, 015 031 069, 021 037 100</td>
<td></td>
</tr>
<tr>
<td>Shell Hardware: 0 = No Hardware, 1 = Jackpost Per M83513/05-07 Sizes 9 thru 69, 3 = Jackpost (.040 Panel Mount), 4 = Jackpost (.060 Panel Mount), 5 = Jackpost (.070 Panel Mount), 6 = Jackpost (.080 Panel Mount)</td>
<td></td>
</tr>
<tr>
<td>Shell Finish: A = Cadmium, B = Nickel, C = Anodize, D = Chem Film, E = Black Cadmium, G = Gold, P = Passivation (Stainless Steel)</td>
<td></td>
</tr>
<tr>
<td>Terminations: 1 = .109 ±0.015, 2 = .140 ±0.015, 3 = .172 ±0.015, 4 = .190 ±0.015, 5 = .250 ±0.015, 6 = .125 ±0.015, 7 = .375 ±0.015, 8 = .500 ±0.015</td>
<td></td>
</tr>
<tr>
<td>PCB Mounting Method: T = #2-56 Threaded Insert Sizes 9 thru 69 (#4-40 for size 100), Omit for Through Hole (.096 dia for 9-69, .125 for 100)</td>
<td></td>
</tr>
</tbody>
</table>

**MATERIALS AND FINISHES ARE IAW MIL-DTL-83513**

**FOR DETAILS SEE MIL SPEC OR WWW.CRISTEK.COM**

**CRISTEK.COM 888.265.9162**
SERIES MBR
MICRO-D METAL SHELL
RIGHT ANGLE P.C.B. MOUNT

MBR PLUG PCB LAYOUTS

.100 X .100 GRID PATTERN OFFSET .050 (EXCEPT 69)

TOLERANCE: .XXX ± .005
.XX ± .01
ANGLE ± 1°

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MBR RECEPTACLE PCB LAYOUTS

.100 X .100 GRID PATTERN OFFSET .050 (EXCEPT 69)