SERIES MBS
MICRO-D METAL SHELL
STRAIGHT BOARD MOUNT

<table>
<thead>
<tr>
<th>NO. OF CONTACTS</th>
<th>A MAX</th>
<th>B ± .007</th>
<th>C</th>
<th>D MAX</th>
<th>E MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>1.390</td>
<td>1.150</td>
<td>.565</td>
<td>.795</td>
<td>.308</td>
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<tr>
<td>15</td>
<td>1.390</td>
<td>1.150</td>
<td>.715</td>
<td>.945</td>
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<tr>
<td>21</td>
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<td>1.450</td>
<td>.865</td>
<td>1.095</td>
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<td>1.500</td>
<td>.965</td>
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<td>31</td>
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<td>1.800</td>
<td>1.115</td>
<td>1.345</td>
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<tr>
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<td>2.100</td>
<td>1.265</td>
<td>1.875</td>
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<tr>
<td>51</td>
<td>2.270</td>
<td>2.000</td>
<td>1.215</td>
<td>1.775</td>
<td>.351</td>
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<tr>
<td>69</td>
<td>2.870</td>
<td>2.600</td>
<td>1.515</td>
<td>1.735</td>
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<tr>
<td>100</td>
<td>3.070</td>
<td>2.800</td>
<td>1.800</td>
<td>2.585</td>
<td>.460</td>
</tr>
</tbody>
</table>

SEE TERMINATION OPTIONS

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

CRISTEK.COM 888.265.9162
## MICRO-D STRAIGHT PCB MOUNT

### GENDER

1 = RECEPTACLE, SOCKET CONTACTS  
2 = PLUG, PIN CONTACTS

### NUMBER OF CONTACTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>009</td>
<td>025 051</td>
</tr>
<tr>
<td>015</td>
<td>031 069</td>
</tr>
<tr>
<td>021</td>
<td>037 100</td>
</tr>
</tbody>
</table>

### SHELL HARDWARE

0 = NO HARDWARE  
1 = JACKPOST PER M83513/05-07 SIZES 9 THRU 69  
   JACKPOST PER M83513/05-17 FOR SIZE 100

### SHELL FINISH

A = CADMIUM  
B = NICKEL  
C = ANODIZE  
D = CHEM FILM  
E = BLACK CADMIUM  
G = GOLD  
P = PASSIVATION (STAINLESS STEEL)

### TERMINATIONS

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = .109</td>
<td>±.015</td>
</tr>
<tr>
<td>2 = .140</td>
<td>±.015</td>
</tr>
<tr>
<td>3 = .172</td>
<td>±.015</td>
</tr>
<tr>
<td>4 = .190</td>
<td>±.015</td>
</tr>
<tr>
<td>5 = .250</td>
<td>±.015</td>
</tr>
<tr>
<td>6 = .125</td>
<td>±.015</td>
</tr>
<tr>
<td>7 = .375</td>
<td>±.015</td>
</tr>
<tr>
<td>8 = .500</td>
<td>±.015</td>
</tr>
</tbody>
</table>

All 24 AWG (.020 DIA) HOT SOLDER DIPPED

### PCB MOUNTING METHOD

T = #2-56 THREAD INSERT SIZES 9 THRU 69 (#4-40 FOR SIZE 100)  
OMIT FOR THROUGH HOLE (.096 DIA FOR 9-69, .125 FOR 100)

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**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  
DVX AT SEA LEVEL ----------- 600 VAC  
DVX 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.

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**MATERIALS AND FINISHES ARE IAW MIL-DTL-83513**  
FOR DETAILS SEE MIL SPEC OR WWW.CRISTEK.COM

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

**TITLE:** MICRO-D METAL SHELL STRAIGHT BOARD MOUNT

**SHR:** 2 OF 4  
**DWG. NO.:** MBS  
**REV:** N

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**CRISTEK.COM**  
888.265.9162
PLUG PCB LAYOUTS

.100 X .100 GRID PATTERN OFFSET .050