### Table: Dimensions

<table>
<thead>
<tr>
<th>NO. OF POSITIONS</th>
<th>A MAX</th>
<th>B NOM</th>
<th>C MAX</th>
<th>D MAX</th>
<th>E ±.01</th>
<th>F ±.01</th>
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<tbody>
<tr>
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<td>.790</td>
<td>.565</td>
<td>.230</td>
<td>.425</td>
<td>.25</td>
<td>.23</td>
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<td>.13</td>
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<td>21</td>
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<td>.865</td>
<td>.230</td>
<td>.425</td>
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<td>.965</td>
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<td>.425</td>
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<td>.13</td>
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<td>.525</td>
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<td>1.215</td>
<td>.275</td>
<td>.660</td>
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<td>.15</td>
</tr>
</tbody>
</table>

### Diagram:

- **2x JACKPOST #2-56 UNC-2B**
- **.096 ±.005 DIA THRU HOLE**
- **.183 MAX (RECEPT)**
- **.202 MAX (PLUG)**
- **.020 WASHOUT AREA**
- **SECTION B-B**
- **SCALE 2 : 1**

### Notes:
- **SEE TERMINATION OPTIONS**
- **#2-56 THREADED INSERT (OPTIONAL)**

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**Cristek.com**

**Series HBR**

**Micro-D Hybrid Shell**

**Right Angle P.C.B. Mount**

**Title**

**Micro-D Hybrid Shell**

**Right Angle P.C.B. Mount**

**Tolerance:** 

- **.005 ±.005**
- **.01 ±.01**
- **Angle ±1°**

**888.265.9162**
HBR—X XXX—X X X T

MICRO-D HYBRID
RIGHT ANGLE BOARD MOUNT

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

NUMBER OF CONTACTS
009 025 051
015 031
021 037

SHELL HARDWARE
0 = NO HARDWARE
1 = JACKPOST PER M83513/05-07

SHELL FINISH
A = CADMIUM
B = NICKEL

TERMINATIONS
1 = .109 ± .015
2 = .140 ± .015
3 = .172 ± .015
4 = .190 ± .015
5 = .250 ± .015

ALL 24 AWG (.020 DIA)
HOT SOLDER DIPPED

PCB MOUNTING METHOD
T = #2-56 THREADED INSERT
OMIT FOR THROUGH HOLE

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

1. MATERIALS:
   SHELL - ALUMINUM ALLOY
   INSULATOR / BACKSHELL - GLASS FILLED THERMOPLASTIC
   PIN/SOCKET CONTACT - COPPER ALLOY

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 ----------- 24 AWG = 25 MILLIOHMS MAX.
   CONTACT RETENTION ----------- 5 lb MINIMUM AXIAL LOAD
   ENGAGEMENT FORCE ----------- 6 oz MAX
   SEPARATION FORCE ----------- 6.5 oz MIN

4. ADDITIONAL INFORMATION:
   DESIGN AND PERFORMANCE IN GENERAL
   ACCORDANCE WITH M83513 WHERE APPLICABLE.
   CONTACT CRISTEK FOR OTHER CONFIGURATIONS.
HBR PLUG PCB LAYOUT

0.100 X 0.100 GRID PATTERN OFFSET 0.050

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

MICRO-D HYBRID SHELL
RIGHT ANGLE P.C.B. MOUNT

CRISTEK.COM

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