### MICRO-D METAL SHELL,
RIGHT ANGLE BOARD MOUNT, CONDENSED

<table>
<thead>
<tr>
<th>NO. OF CONTACTS</th>
<th>A MAX</th>
<th>B MAX</th>
<th>C MAX</th>
<th>D MAX BODY STYLE #1</th>
<th>E MAX</th>
<th>F MAX</th>
<th>G MAX</th>
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</table>

**NOTE:**
- TOLERANCE: \( \pm 0.005 \) INTO \( \pm 0.01 \) ANGLE \( \pm 1^\circ \)
- SEE SHT 3/4 FOR PCB FOOTPRINT

**Socket #1 Receptacle**
- Low profile jackscrew #2-56 for sizes 9-69
- #4-40 for size 100

**Pin #1 Plug**
- See termination options
- High profile jackscrew #2-56 for sizes 9-69
- #4-40 for size 100

**Body Style #1**
- .075 TYP

**Body Style #2**
- .096 ± .005 dia hole for 9-69
- .125 ± .003 dia hole for 100

**High Profile Jackscrew**
- #2-56 for sizes 9-69
- #4-40 for size 100

**Contacts**
- 37 100 51 25 31 21 15

**Contact Numbers**
- 9 69 1.735 1.515 .351 1.350 .145 .500 .295
**MICRO-D METAL SHELL, RIGHT ANGLE BOARD MOUNT, CONDENSED**

**MCR — X XXX — X X X T**

**METAL MICRO-D RIGHT ANGLE BOARD MOUNT CONDENSED**

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

**NUMBER OF CONTACTS**
009 025 051  
015 031 069  
021 037 100

**SHELL HARDWARE/BODY STYLE**
1 = JACKPOST/BODY STYLE #2  
2 = LOW PROFILE HEX JACkSCREW/BODY STYLE #1  
3 = HIGH PROFILE HEX JACkSCREW/BODY STYLE #1  
4 = THREADED INSERT/BODY STYLE #1  
5 = NO HARDWARE/BODY STYLE #1  
6 = NO HARDWARE/BODY STYLE #2  
7 = JACKPOST/BODY STYLE #1  
8 = LOW PROFILE SLOT JACkSCREW/BODY STYLE #1  
9 = HIGH PROFILE SLOT JACkSCREW/BODY STYLE #1

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

**TERMINATIONS**
1 = .109 ±.015  
2 = .140 ±.015  
3 = .172 ±.015  
4 = .190 ±.015  
5 = .250 ±.015  
6 = .125 ±.015  
7 = .375 ±.015  
8 = .500 ±.015

**ALL 24 AWG (.020 DIA) HOT SOLDER DIPPED**

**THREADED INSERT (OMIT IF NOT USED)**
#2-56 FOR SIZES 9-69  
#4-40 FOR SIZE 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  
   DWR AT SEA LEVEL ———— 600 VAC  
   DWR AT 70,000 FT ALTITUDE ———— 150 VAC

   CONTACT RESISTANCE ———— 24 AWG = 25 MILIOHMS MAX  
   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 MIL-3513 WHERE APPLICABLE.  
   CONTACT CRISTEK FOR RoHS AND OTHER CONFIGURATIONS.
SERIES MCR
MICRO-D METAL SHELL,
RIGHT ANGLE BOARD MOUNT, CONDENSED

9 CONTACTS

15 CONTACTS

21 CONTACTS

25 CONTACTS

31 CONTACTS

37 CONTACTS

51 CONTACTS

69 CONTACTS

100 CONTACTS

MCR PLUG PCB LAYOUTS
* SIZES 9-37: .100 X .075 GRID PATTERN OFFSET BY .050
** SIZES 51-100: .075 X .075 GRID PATTERN OFFSET BY .0375

TOLERANCE: XXX ± 0.005
XX ± 0.01
ANGLE ± 1°

MICRO-D METAL SHELL,
RIGHT ANGLE BOARD MOUNT,
CONDENSED

SHT 3 OF 4

DWG. NO. MCR

REV P

CRISTEK.COM 888.265.9162
MICRO-D METAL SHELL,
RIGHT ANGLE BOARD MOUNT, CONDENSED

MCR RECEPTACLE PCB LAYOUTS

* SIZES 9-37: .100 X .075 GRID PATTERN OFFSET BY .050
** SIZES 51-100: .075 X .075 GRID PATTERN OFFSET BY .0375

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

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