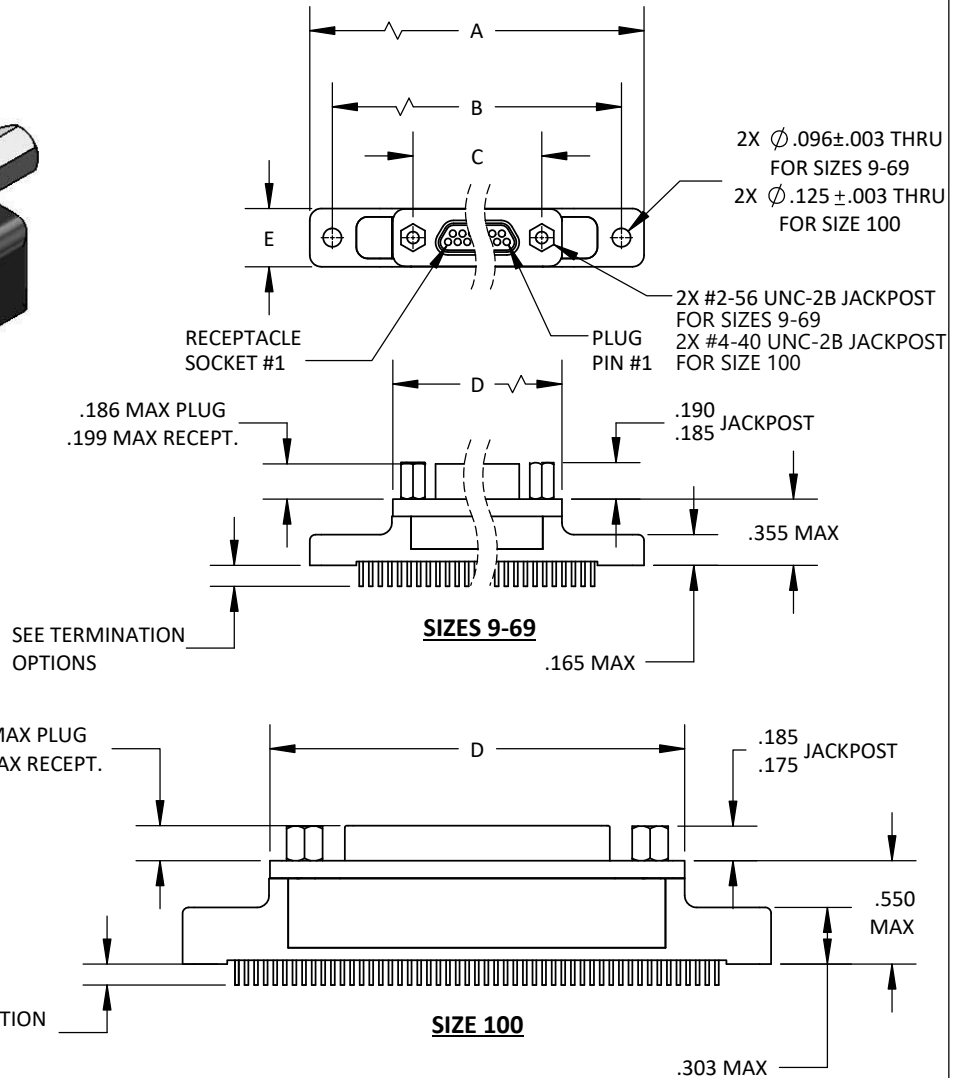


NO. OF CONTACTS	A MAX	B ±.007	C	D MAX	E MAX
9	1.390	1.150	.565	.795	.308
15	1.390	1.150	.715	.945	
21	1.690	1.450	.865	1.095	
25	1.740	1.500	.965	1.195	
31	2.040	1.800	1.115	1.345	
37	2.340	2.100	1.265	1.875	
51	2.270	2.000	1.215	1.775	.351
69	2.870	2.600	1.515	1.735	
100	3.070	2.800	1.800	2.585	.460



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

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

SHT 1 OF 4

DWG. NO.

MBS

REV  
**N**

**MBS—X XXX—X X X T**

MICRO-D STRAIGHT PCB MOUNT

GENDER

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

NUMBER OF CONTACTS

- 009 025 051
- 015 031 069
- 021 037 100

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

- 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

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)

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

**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

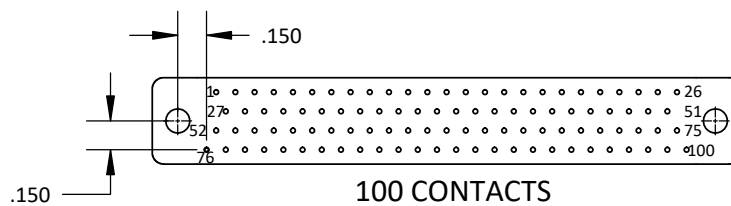
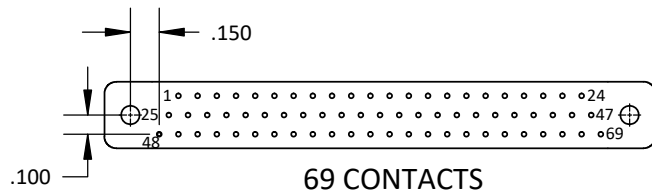
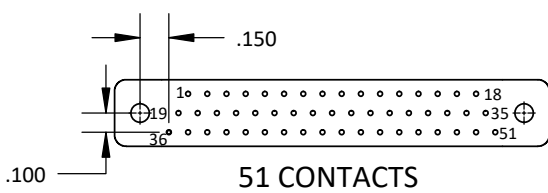
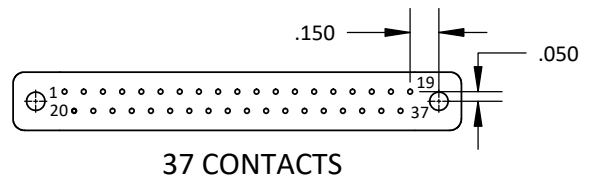
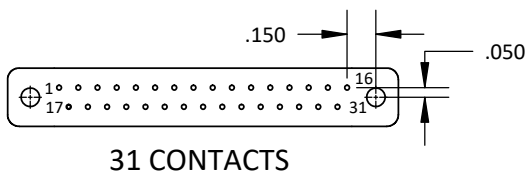
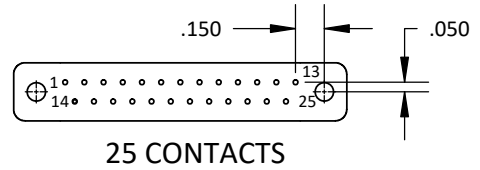
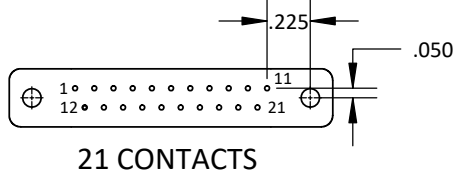
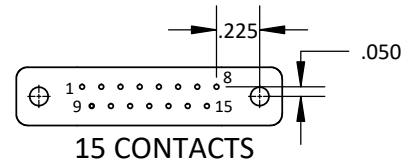
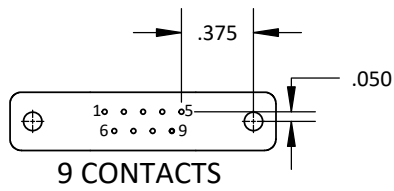
**3. SPECIFICATIONS:**

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.

TOLERANCE: .XXX ±.005 .XX ±.01 ANGLE ±1°	TITLE <b>MICRO-D METAL SHELL STRAIGHT BOARD MOUNT</b>	SHT 2 OF 4	DWG. NO. <b>MBS</b>	REV <b>N</b>
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**PLUG PCB LAYOUTS**  
.100 X .100 GRID PATTERN OFFSET .050

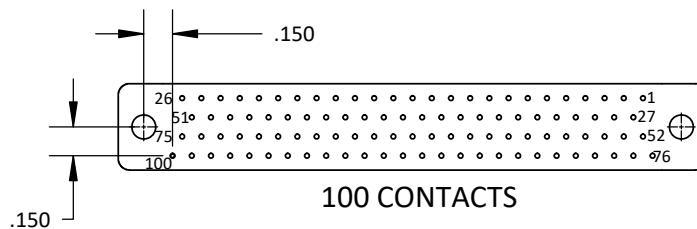
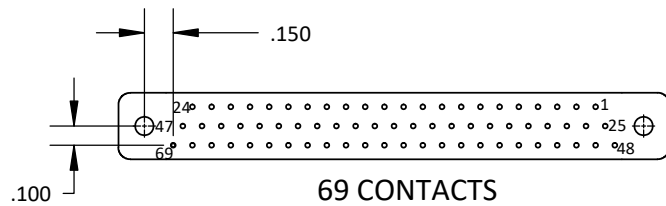
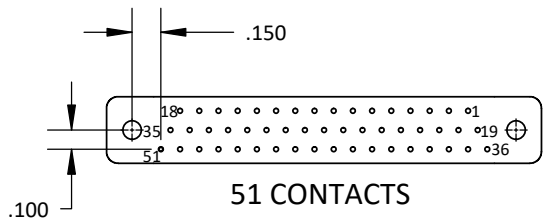
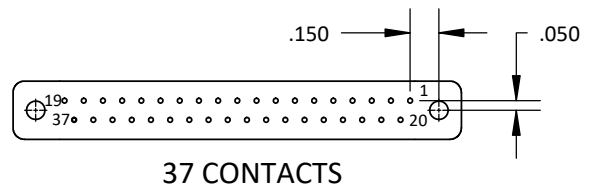
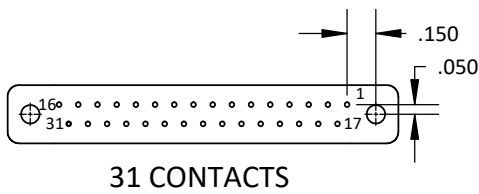
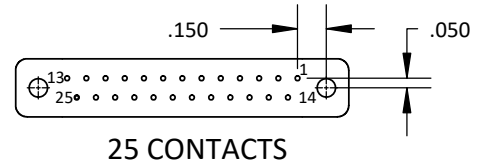
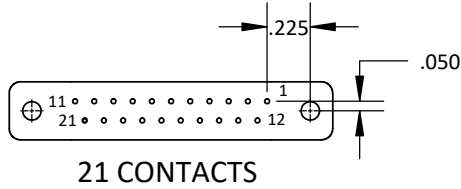
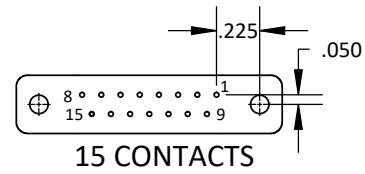
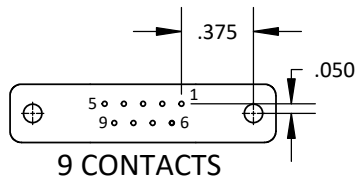
TOLERANCE: .XXX ±.005  
.XX ±.01  
ANGLE ±1°

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

SHT 3 OF 4

DWG. NO.  
**MBS**

REV  
**N**



**RECEPTACLE PCB LAYOUTS**  
.100 X .100 GRID PATTERN OFFSET .050

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

TITLE  
MICRO-D METAL SHELL  
STRAIGHT BOARD MOUNT

SHT 4 OF 4

DWG. NO.  
MBS

REV  
N