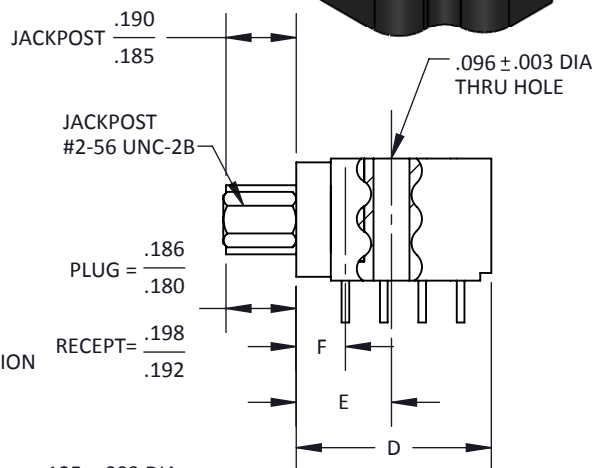
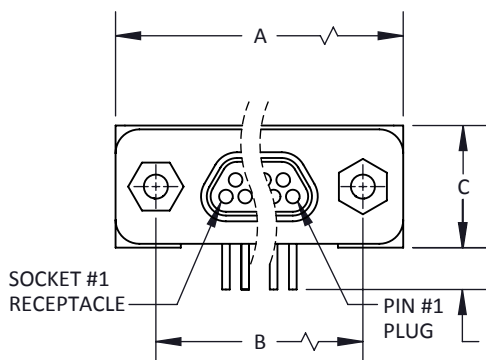
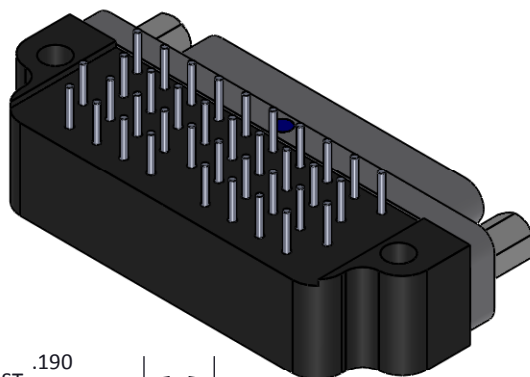
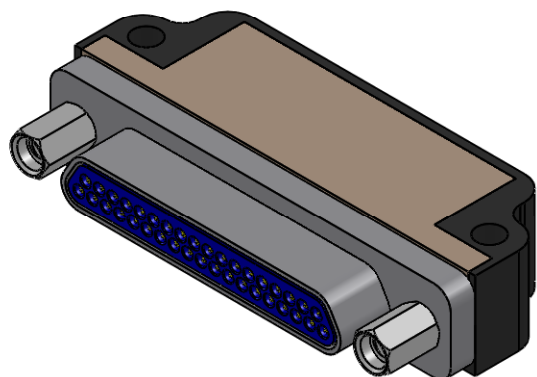
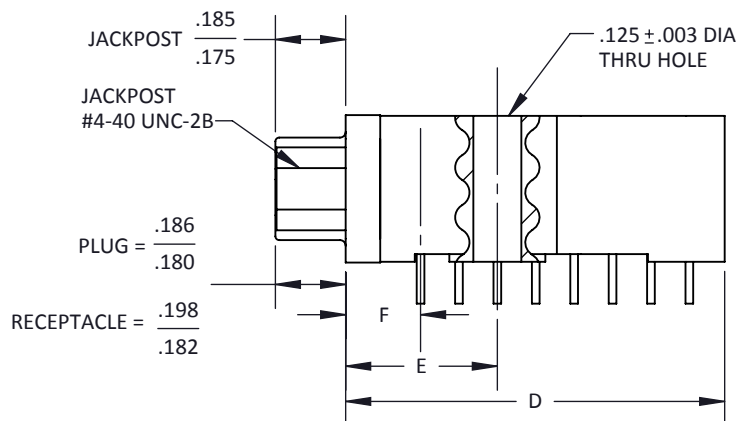


NO. OF CONTACTS	A MAX	B BSC	C MAX	D MAX	E ±.01	F ±.01
9	.787	.565	.325	.425	.25	.23
15	.937	.715	.325	.425	.25	.13
21	1.087	.865	.325	.425	.25	.13
25	1.187	.965	.325	.425	.25	.13
31	1.337	1.115	.325	.525	.25	.13
37	1.487	1.265	.325	.525	.25	.13
51	1.435	1.215	.360	.660	.30	.15
100	2.175	1.800	.420	1.010	.40	.20



9-51 CONTACTS



100 CONTACTS

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

TITLE  
**MILITARY MICRO-D METAL SHELL  
RIGHT ANGLE P.C.B. MOUNT**

SHT 1 OF 4

DWG. NO.  
**M83513/10-15**

REV  
**H**



# MILITARY MICRO-D METAL SHELL RIGHT ANGLE P.C.B. MOUNT

CIM XX - X XX X X

CRISTEK'S P/N EQUIVALENT  
TO M83513 MIL SPEC.

SLASH NUMBER (M83513/##)  
10 = PLUG SIZE 9-37  
11 = PLUG SIZE 51  
12 = PLUG SIZE 100  
13 = RECEPTACLE SIZE 9-37  
14 = RECEPTACLE SIZE 51  
15 = RECEPTACLE SIZE 100

NUMBER OF CONTACTS  
A = 9 D = 25 G = 51  
B = 15 E = 31 H = 100  
C = 21 F = 37

TERMINATIONS  
01 = .109 ±.015  
02 = .140 ±.015  
03 = .172 ±.015 } ALL 24 AWG (.020 DIA)  
HOT SOLDER DIPPED

SHELL FINISH  
C = CADMIUM  
N = NICKEL

SHELL HARDWARE  
N = NO HARDWARE  
P = JACKPOST PER M83513/05-07 SIZES 9 THRU 51  
JACKPOST PER M83513/05-17 FOR SIZE 100

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  
CONTACT - COPPER ALLOY  
INTERFACIAL SEAL (RECEPT) - FLUOROSILICONE BLEND

## 2. FINISH:

SHELL - ELECTROLESS NICKEL OR CADMIUM OVER  
ELECTROLESS NICKEL  
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 MAXIMUM AXIAL LOAD  
ENGAGEMENT FORCE ----- 6 oz MAX  
SEPARATION FORCE ----- 0.5 oz MIN

## 4. ADDITIONAL INFORMATION:

FOR CROSS-REFERENCING CRISTEK PART  
NUMBERS TO M83513, SEE CROSS REFERENCE  
INFORMATION IN THE FRONT OF THIS SECTION.  
FOR MOUNTING HARDWARE OPTIONS, SEE THE  
HARDWARE PAGES AT THE END OF THIS SECTION  
ALL INTERFACE DIMENSIONS IN ACCORDANCE  
WITH M83513.

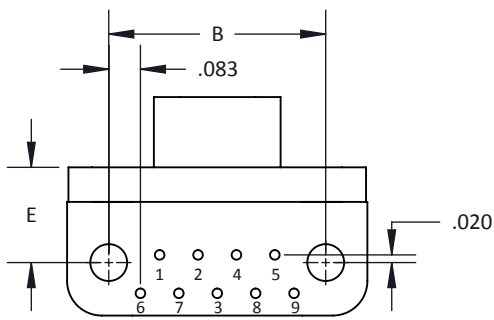
TOLERANCE: .XXX ±.005  
.XX ±.01  
ANGLE ±1°

TITLE  
MILITARY MICRO-D METAL SHELL  
RIGHT ANGLE P.C.B. MOUNT

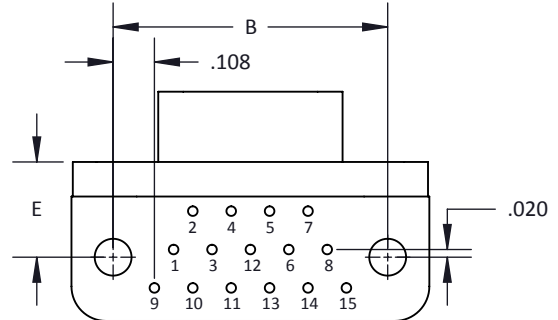
SHT 2 OF 4

DWG. NO.  
M83513/10-15

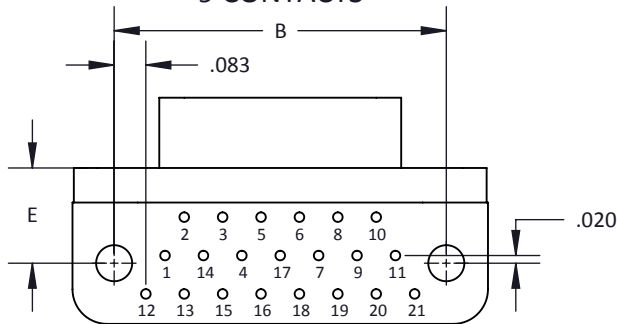
REV  
H



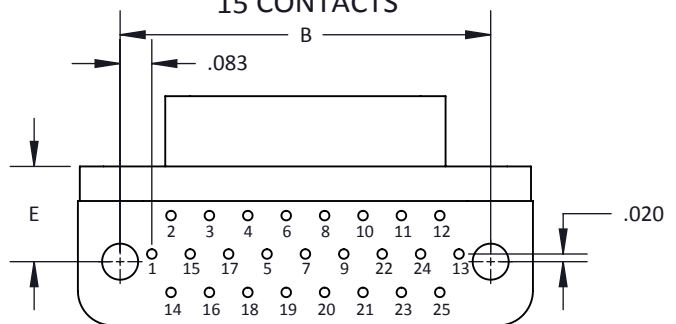
9 CONTACTS



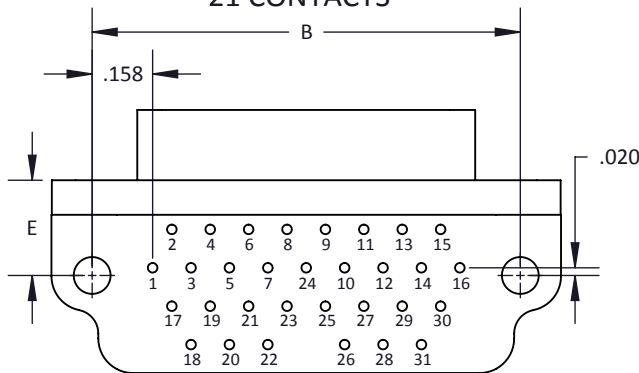
15 CONTACTS



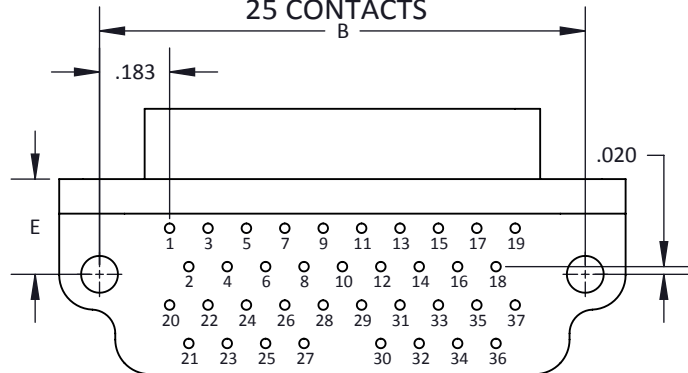
21 CONTACTS



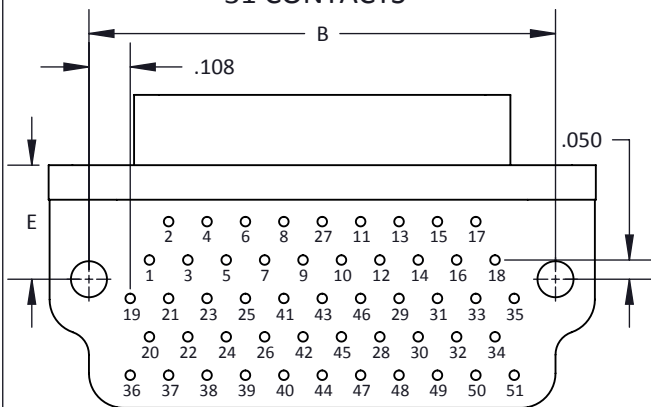
25 CONTACTS



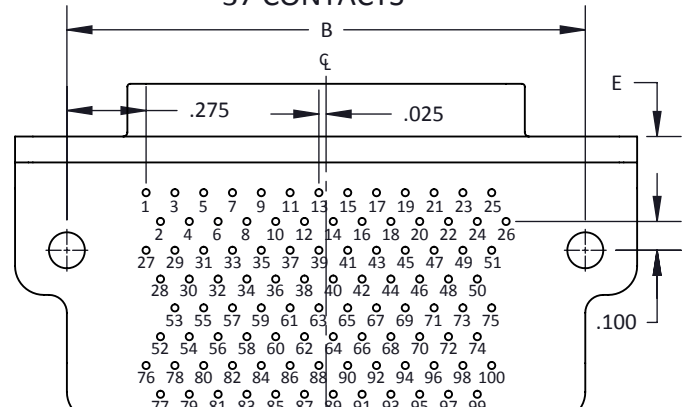
31 CONTACTS



37 CONTACTS



51 CONTACTS



100 CONTACTS

**PLUG PCB LAYOUTS**

.100 X .100 GRID PATTERN OFFSET .050

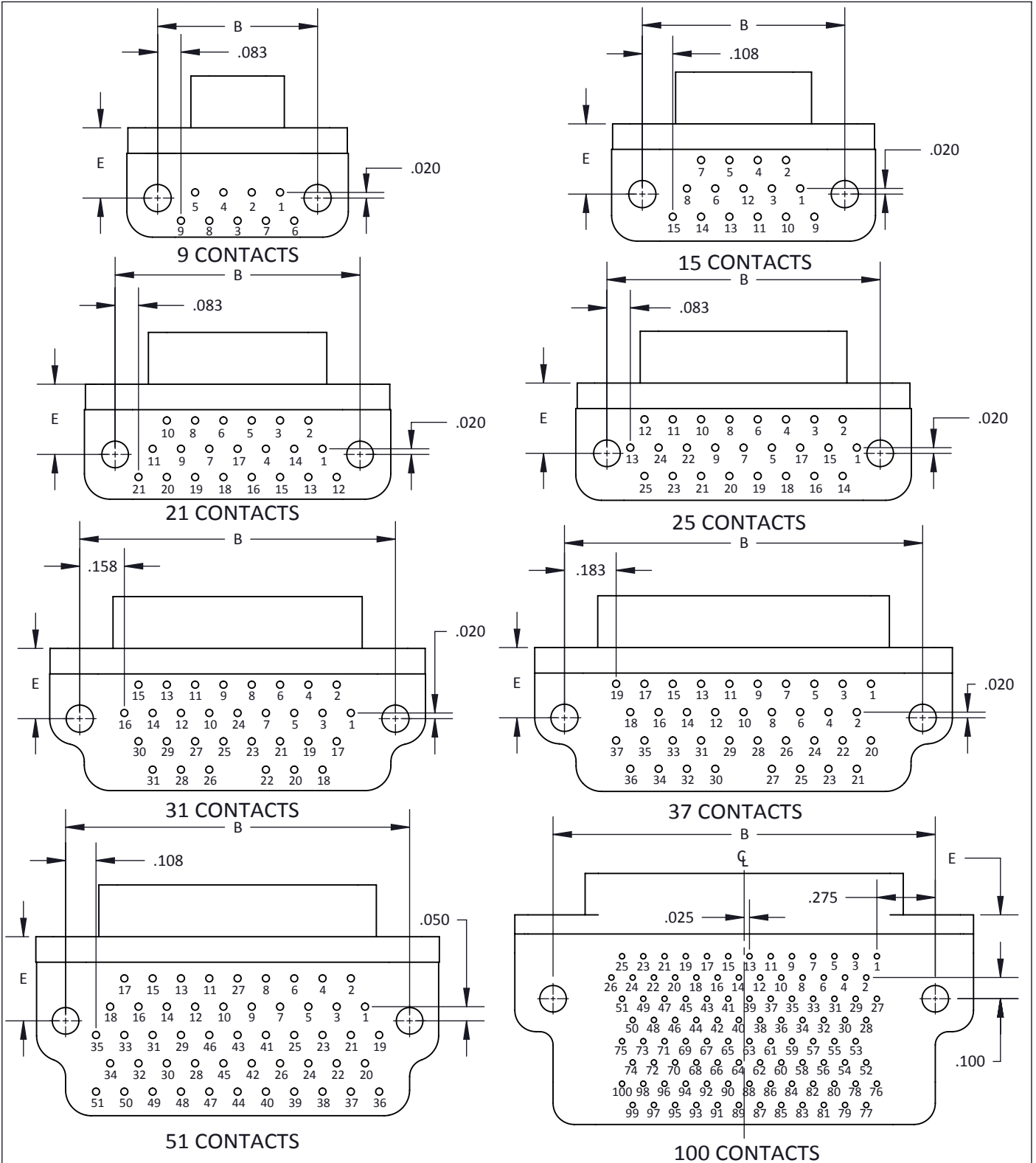
TOLERANCE: .XXX ±.005  
.XX ±.01  
ANGLE ±1°

TITLE  
**MILITARY MICRO-D METAL SHELL  
RIGHT ANGLE P.C.B. MOUNT**

SHT 3 OF 4

DWG. NO.  
**M83513/10-15**

REV  
**H**



**RECEPTACLE PCB LAYOUTS**

.100 X .100 GRID PATTERN OFFSET .050

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

TITLE  
**MILITARY MICRO-D METAL SHELL  
RIGHT ANGLE P.C.B. MOUNT**

SHT 4 OF 4

DWG. NO.  
**M83513/10-15**

REV  
**H**