

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

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

SHT 1 OF 4

DWG. NO.
M83513/22-27

REV
H



MILITARY MICRO-D METAL SHELL
STRAIGHT BOARD MOUNT

NO. OF CONTACTS	A MAX	B ±.007	C BSC	D MAX	E MAX
9	1.390	1.150	.565	.885	.308
15	1.390	1.150	.715	.945	.308
21	1.690	1.450	.865	1.185	.308
25	1.740	1.500	.965	1.275	.308
31	2.040	1.800	1.115	1.575	.308
37	2.340	2.100	1.265	1.875	.308
51	2.270	2.000	1.215	1.775	.351
100	3.250	2.800	1.800	2.585	.460

CIM XX - X XX X X

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

SLASH NUMBER (M83513/##)
 22 = PLUG SIZE 9-37
 23 = PLUG SIZE 51
 24 = PLUG SIZE 100
 25 = RECEPTACLE SIZE 9-37
 26 = RECEPTACLE SIZE 51
 27 = 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 } ALL 24 AWG (.020 DIA)
 02 = .140 ±.015 } HOT SOLDER DIPPED
 03 = .172 ±.015 }

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

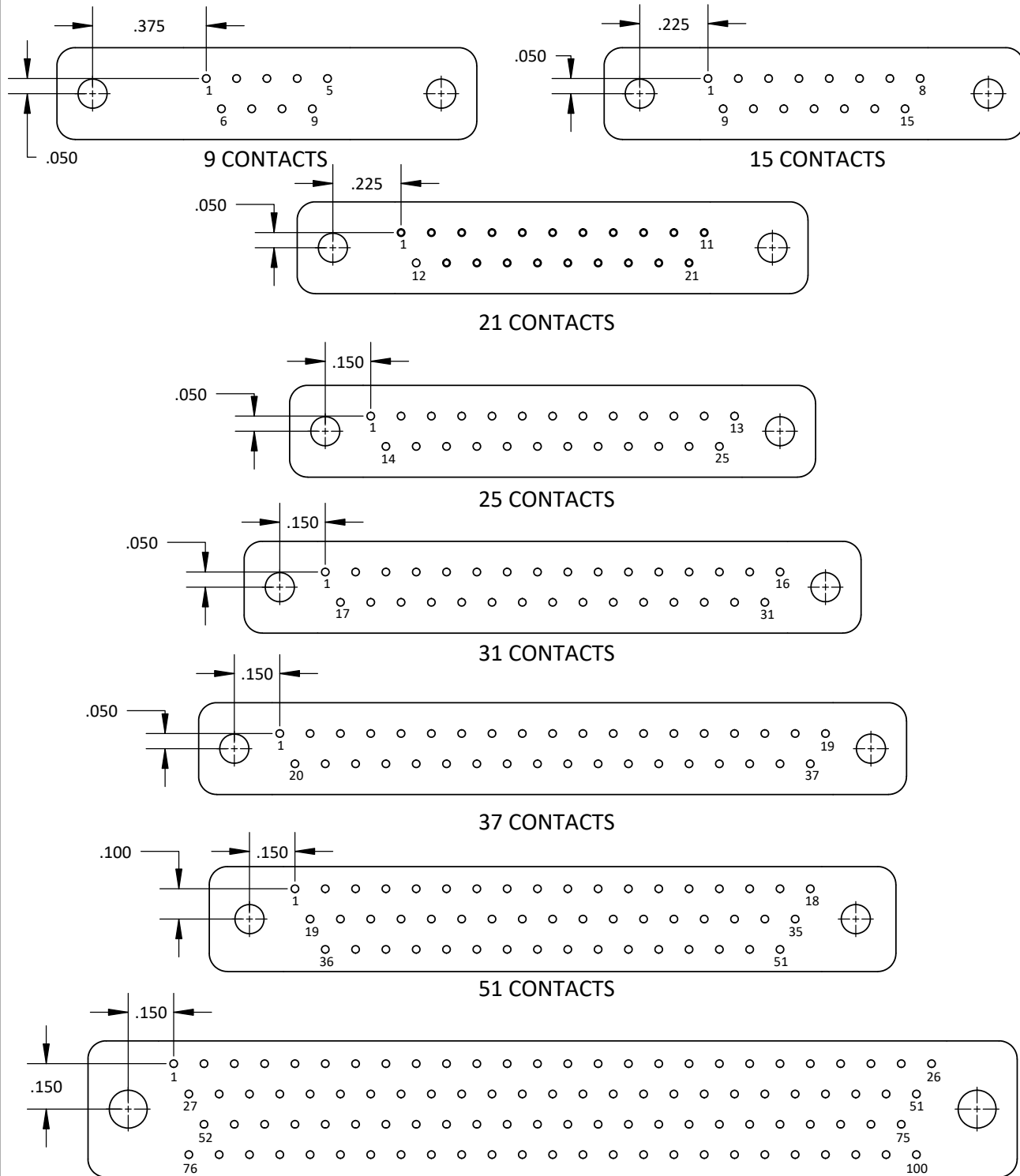
3. SPECIFICATIONS:

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 ----- 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:

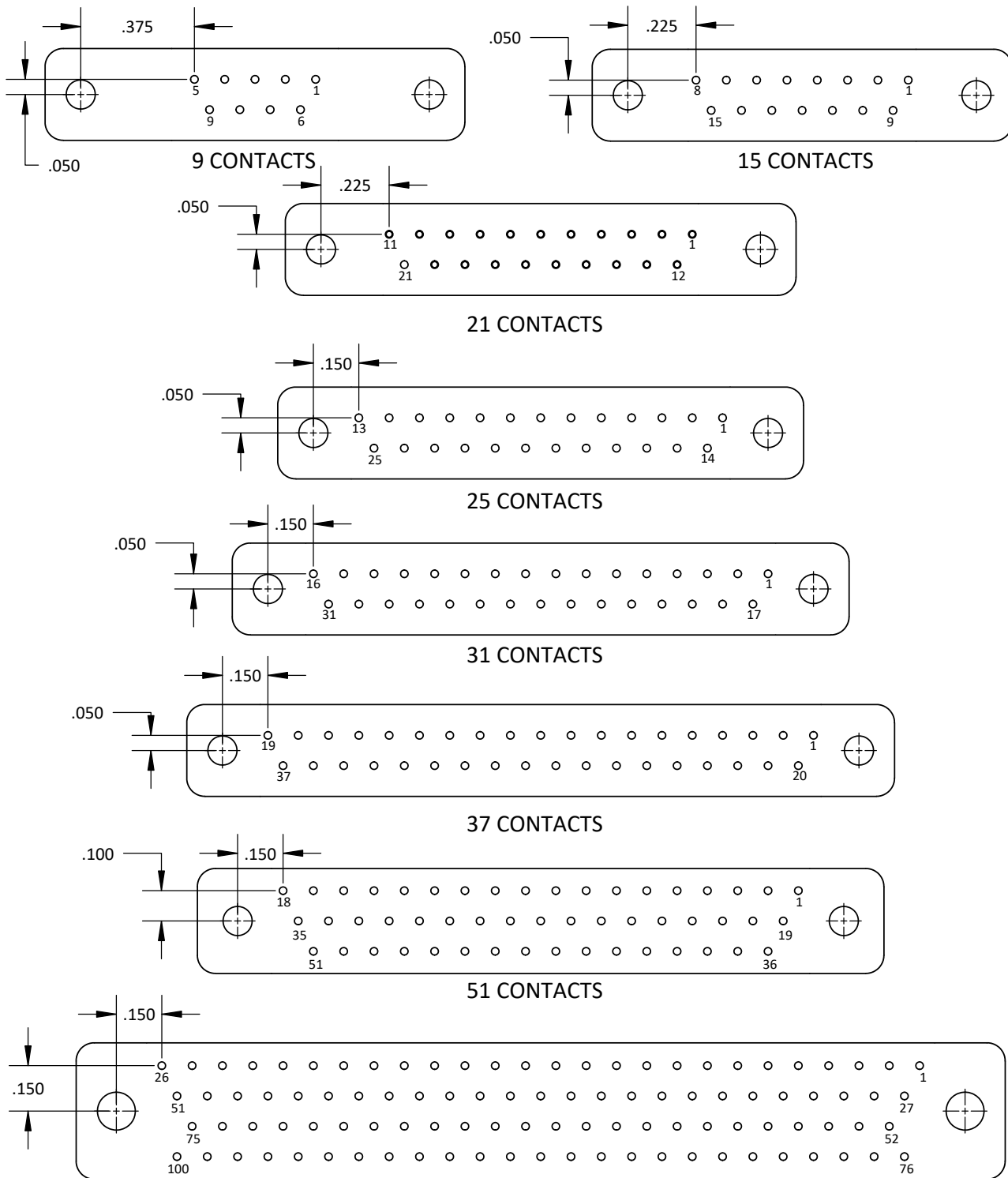
FOR CROSS-REFERENCING CRISTEK PART NUMBERS TO M83513, SEE CROSS REFERENCE INFORMATION IN THE FRONT OF THIS SECTION. FOR MOUNTING HARDWARE OPTIONS, SEE THE HARDWARE PAGES AT THE END OF THIS SECTION DESIGN AND PERFORMANCE IN GENERAL ACCORDANCE WITH M83513.

TOLERANCE: .XXX ±.005 .XX ±.01 ANGLE ±1°	TITLE MILITARY MICRO-D METAL SHELL STRAIGHT BOARD MOUNT	SHT 2 OF 4	DWG. NO. M83513/22-27	REV H
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PLUG PCB LAYOUTS
.100 X .100 GRID PATTERN OFFSET .050

<p>TOLERANCE: .XXX ±.005 .XX ±.01 ANGLE ±1°</p>	<p>TITLE MILITARY MICRO-D METAL SHELL STRAIGHT BOARD MOUNT</p>	<p>SHT 3 OF 4</p>	<p>DWG. NO. M83513/22-27</p>	<p>REV H</p>
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RECEPTACLE PCB LAYOUTS
.100 X .100 GRID PATTERN OFFSET .050

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SHT 4 OF 4

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H