Cable to Board
(Vertical Surface Mount)

.050"

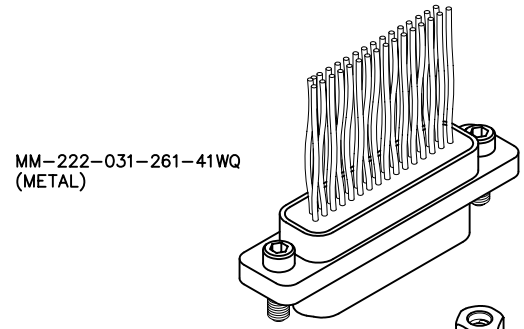
9 thru 51 Contacts

Rugged Surface Mount

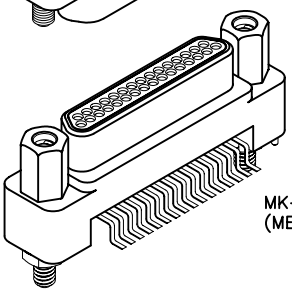
MK

Rugged Cable

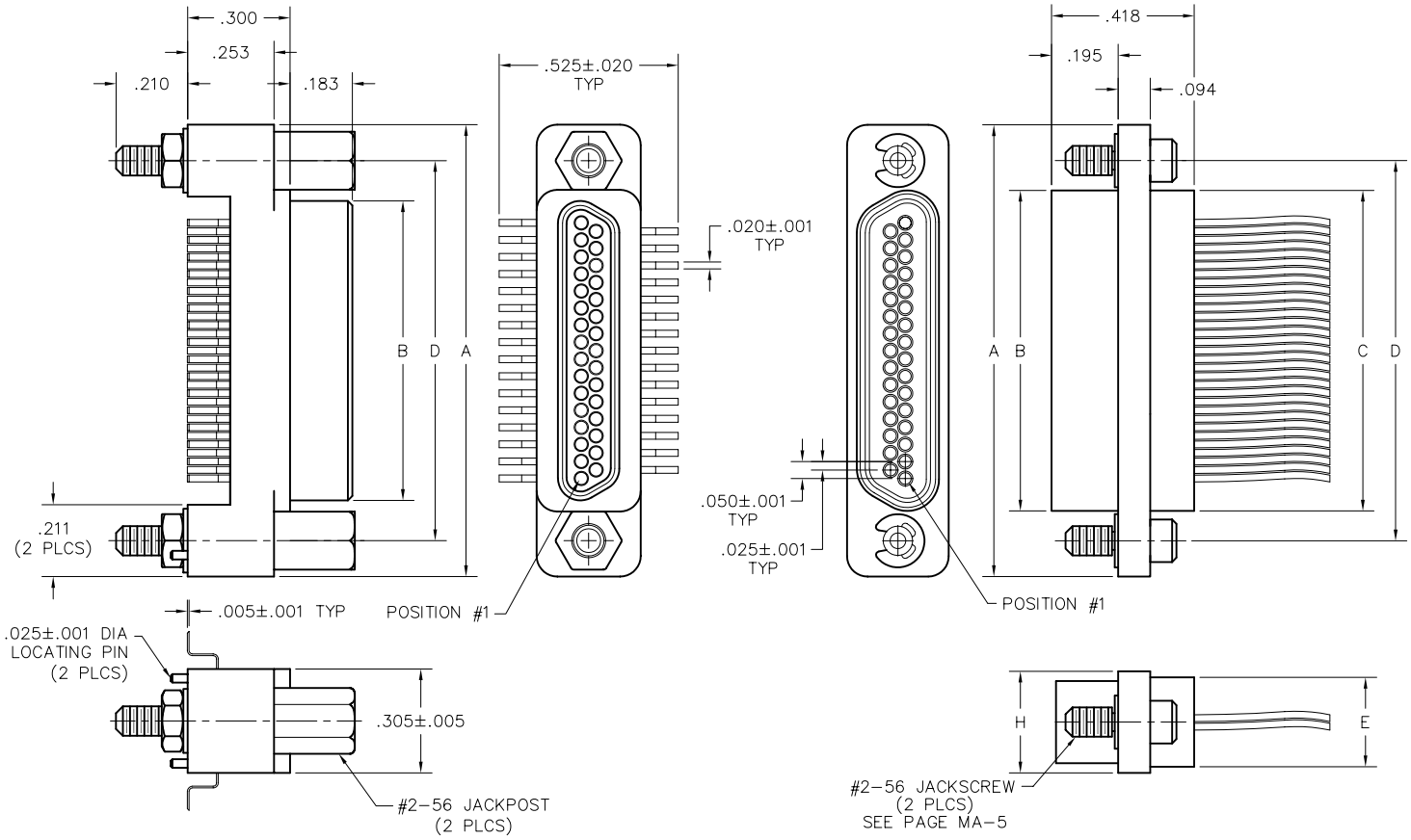
MM



MM–222–031–261–41WQ
(METAL)



MK–2H2–031–375–2200
(METAL)



PLUG

RECEPTACLE

DIMENSIONS									
SIZE	CONTACT ROWS	A	B PLUG MAX	B RCPT MAX	C	D	E POTTING WELL MAX	H	HARDWARE
9	2	.775	.334	.400	.390	.565	.270	.298	#2–56 UNC THD (.092 DIA THRU)
15		.925	.484	.550	.540	.715			
21		1.075	.634	.700	.690	.865			
25		1.175	.734	.800	.790	.965			
31		1.325	.884	.950	.940	1.115			
37		1.475	1.034	1.100	1.090	1.265			
51*		1.825	1.384	1.450	1.440	1.615			

* = 51 POSITION CONNECTORS ARE NON-MIL SPEC INTERFACE

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PLUG: MK–2H3–031–375–2200
RECEPTACLE: MM–223–031–213–4100
XX–XXX–XXX–XXX–XXXX–XXX

PLUG	RECEPTACLE
SERIES	
MK .050" Rugged Metal Surface Mount Connector (MK mates with MK, ML, MM, MN receptacles)	MM .050" Rugged Metal I/O Connector (MM mates with MK, ML, MM, MN plugs)
BODY	
2 2-Row (Sizes 9 thru 51*)	2 2-Row (Sizes 9 thru 51*)
BODY STYLE:	BODY STYLE:
H Plug, vertical surface mount	2 Receptacle, straight, with ears
BODY MATERIAL:	BODY MATERIAL:
2 Polyphenylene Sulfide with electroless nickel shell	2 Polyphenylene Sulfide with electroless nickel shell
3 Polyphenylene Sulfide with electrodeposited cadmium shell ☒	3 Polyphenylene Sulfide with electrodeposited cadmium shell ☒
4 Polyphenylene Sulfide with hard anodized black shell	4 Polyphenylene Sulfide with hard anodized black shell
SIZE	
XXX 009, 015, 021, 025, 031, 037, 051*	XXX 009, 015, 021, 025, 031, 037, 051*
CONTACTS	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
37 Pin, vertical smt	21 Socket, straight, solder cup
	24 Socket, straight, .500" pigtails (.018 dia)
	25 Socket, straight, 1.000" pigtails (.018 dia)
	26 Socket, straight, crimped wire
PLATING OPTIONS:	PLATING OPTIONS:
5 50 µ" Au contacts; Sn/Pb alloy terminations ☒	1 50 µ" Au contacts (crimp wire)
7 50 µ" Au contacts; SAC305 terminations	3 50 µ" Au contacts: 10 µ" Au terminations (solder cup, pigtail)
	5 50 µ" Au contacts; Sn/Pb alloy terminations (pigtail) ☒
	7 50 µ" Au contacts; SAC305 terminations (pigtail)
HARDWARE	
STYLE OF HARDWARE:	STYLE OF HARDWARE:
00 None	00 None
22 Two fixed jacknut assemblies	22 Two fixed jacknut assemblies
41 Two turning jackscrews, allen head, retaining ring	41 Two turning jackscrews, allen head, retaining ring
	42 Two long turning jackscrews, allen head, retaining ring
	43 Two turning jackscrews, slot head, retaining ring
	44 Two long turning jackscrews, slot head, retaining ring
	45 Two turning jackscrews, allen head, captivated**
99 Keying hardware, see options below	99 Keying hardware, see options below
POLARIZATION / WIRING:	POLARIZATION / WIRING
00 None	00 None
	XX For wiring codes, see page MA-3 & MA-4
OPTIONS	
KPXX Two fixed jacknuts. See page MA-6 for keying options	KSXX Two turning jackscrews and interfacial sealing gasket. See page MA-6 for keying options
	900 Interfacial sealing gasket

* = 2 row, 51 position connectors are non-Mil Spec interface.
** = Captive hardware is factory installed and non-removable.

☒ = Option not RoHS compliant

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Recommended PC Board Layout

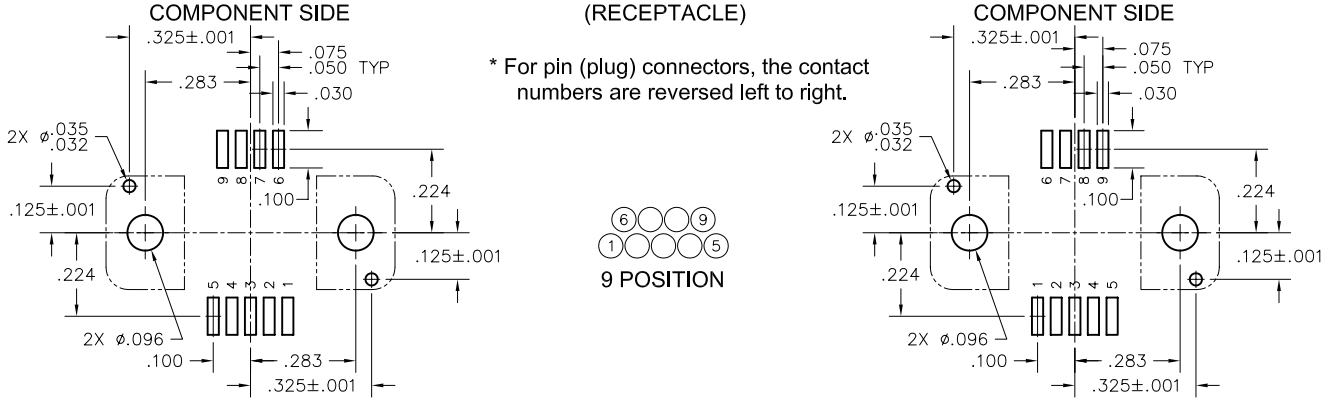
Vertical Surface Mount

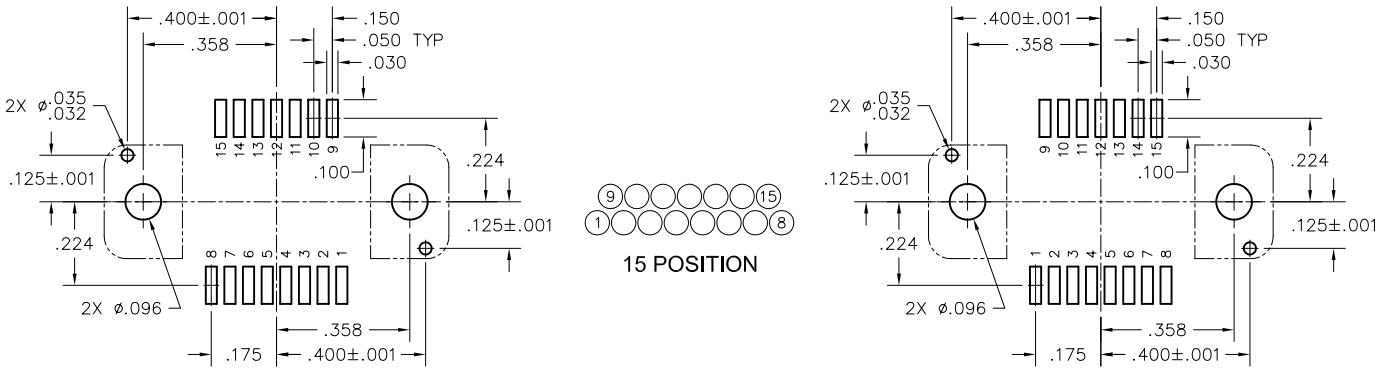
PLUG
PC BOARD LAYOUT
COMPONENT SIDE

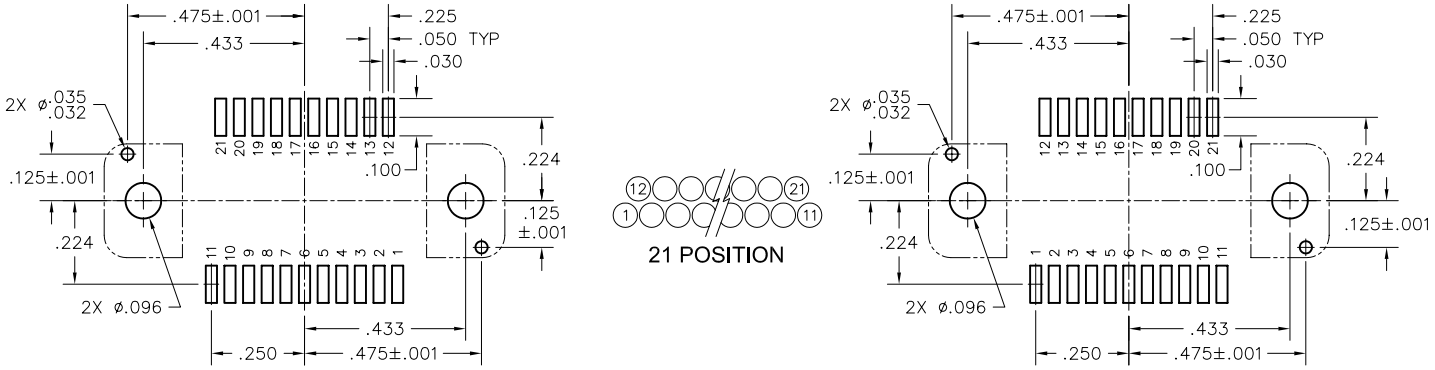
CONNECTOR
MATING FACE*
(RECEPTACLE)

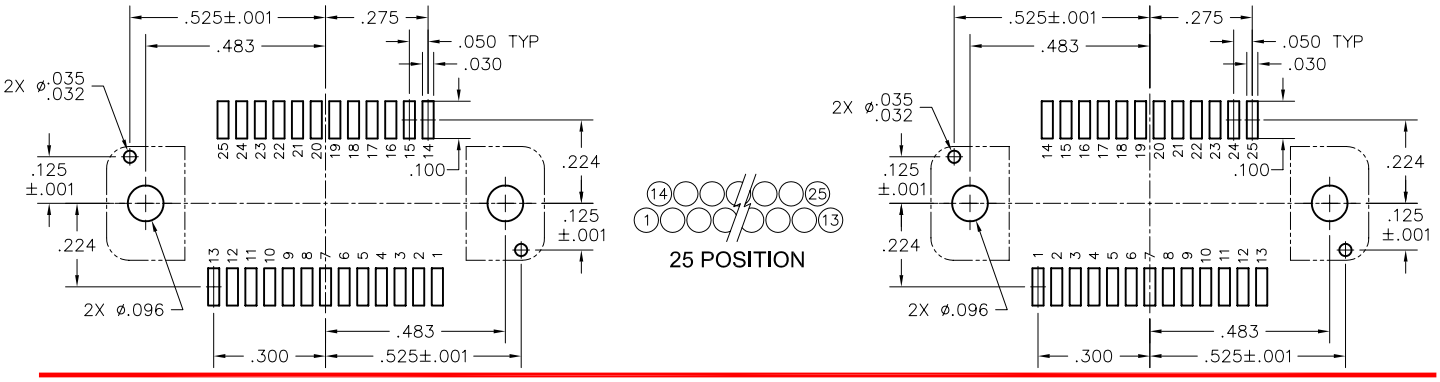
* For pin (plug) connectors, the contact numbers are reversed left to right.

RECEPTACLE
PC BOARD LAYOUT
COMPONENT SIDE







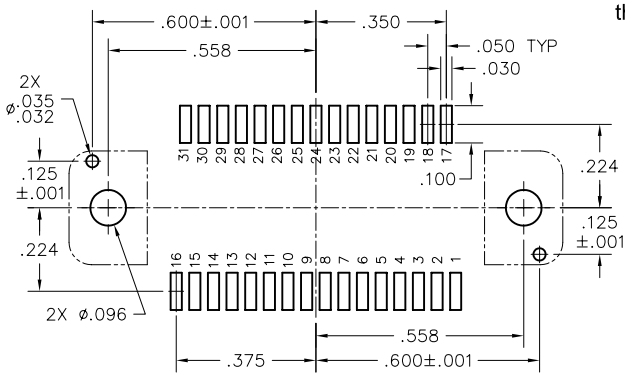


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Recommended PC Board Layout

Vertical Surface Mount

PLUG
PC BOARD LAYOUT
COMPONENT SIDE



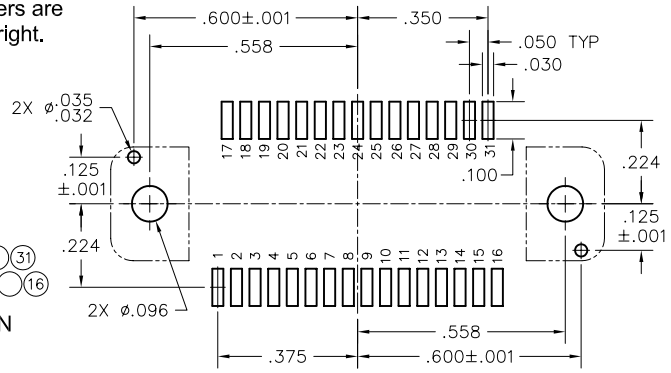
CONNECTOR MATING FACE*
(RECEPTACLE)

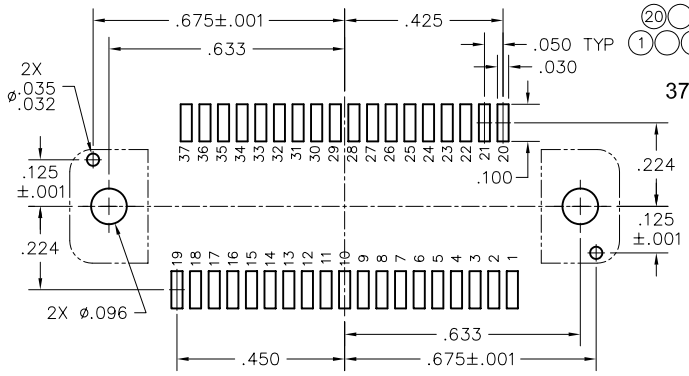
* For pin (plug) connectors, the contact numbers are reversed left to right.



31 POSITION

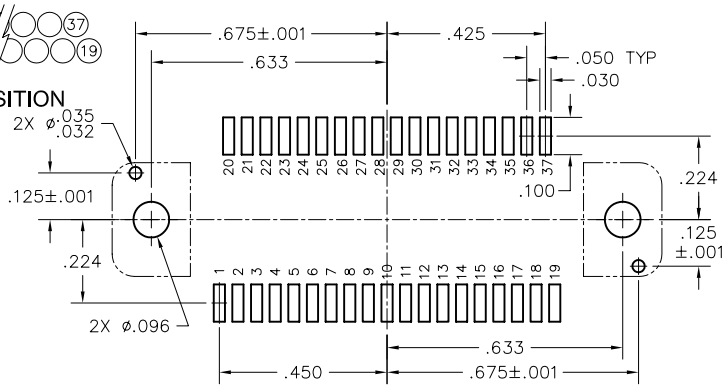
RECEPTACLE
PC BOARD LAYOUT
COMPONENT SIDE

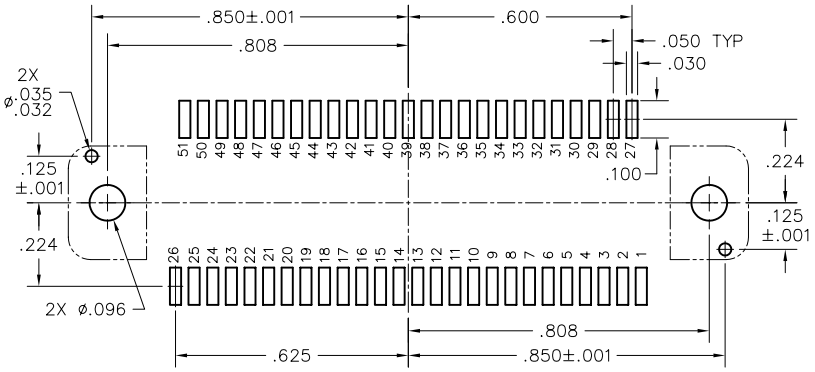






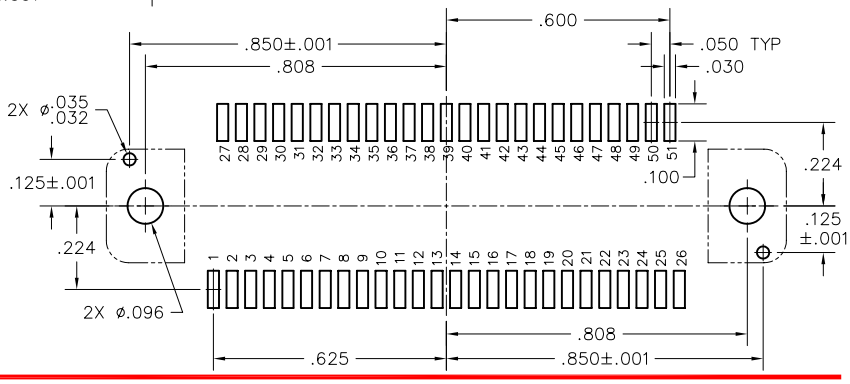
37 POSITION







51 POSITION



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