



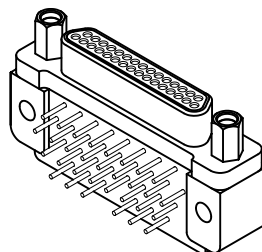
Right Angle Boardmount (Thru Clearance Cut)

.050"
9 thru 100 Contacts

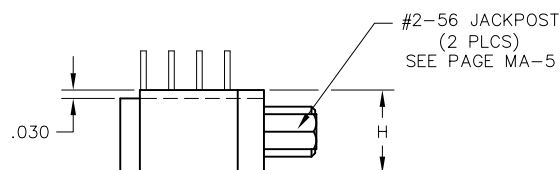
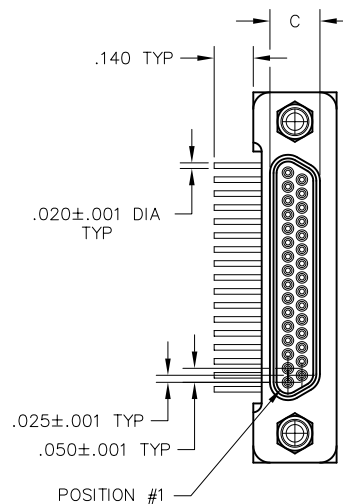
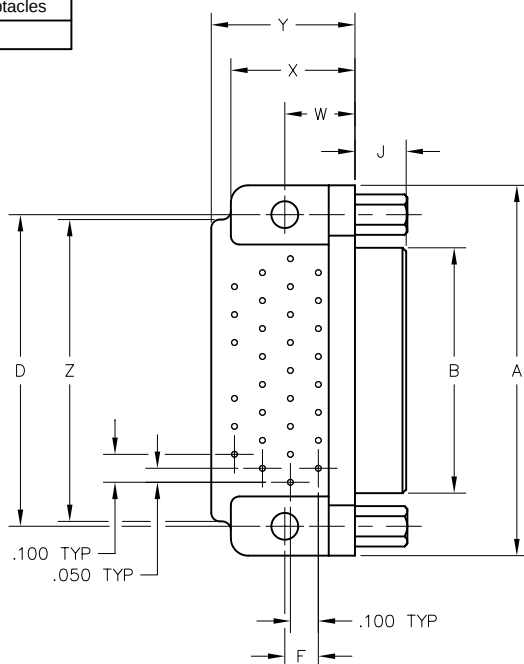
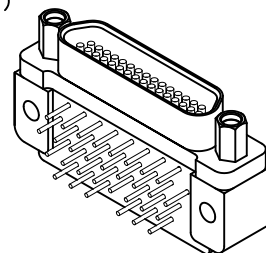
MK

MATING MATRIX	
CONNECTOR	MATES WITH
MK-2R...	MK, ML, MM, MN receptacles
MK-2S...	MK, ML, MM, MN plugs

MK-2R2-031-335-220S
(PLUG)



MK-2S2-031-445-220S
(RCPT)



(PLUG SHOWN)

DIMENSIONS																	
SIZE	CONTACT ROWS	A	B		C		D	F	H	J		W	X MAX	Y MAX	Z	HARDWARE	MOUNTING HOLE
			PLUG MAX	RCPT MAX	PLUG MAX	RCPT MAX				PLUG	RCPT						
9	2	.775	.334	.400	.185	.251	.565	.020	.298	.183	.195	.250	.420	.420	.775	#2-56 UNC THD	#2-56 UNC THREADED INSERT
15		.925	.484	.550			.715								.925		
21		1.075	.634	.700			.865								1.075		
25		1.175	.734	.800			.965	.120							1.175		
31		1.325	.884	.950			1.115						.450	.520	1.080		
37		1.475	1.034	1.100			1.265								1.180		
51	3	1.425	.984	1.050	.228	.294	1.215	.150	.341			.300	.430	.650	1.220		
69		1.725	1.284	1.350			1.515							.755	1.450		

PLUG: MK-2R2-031-335-220S
RECEPTACLE: MK-2S2-031-445-220S
 XX-XXX-XXX-XXX-XXXX-XXX
 | | | |
 BODY CONTACTS OPTIONS
 SERIES SIZE HARDWARE

PLUG

SERIES

MK .050" Rugged Metal PC Board Mount Connector (MK mates with MK, ML, MM, MN, receptacles)

BODY

- 2 2-Row (Sizes 9 thru 37)
- 3 3-Row (Size 51 & 69)
- BODY STYLE: Blind Cut
- R Plug, right angle (thru clearance cut), narrow footprint, w/ mounting holes
- BODY MATERIAL:
- 2 Electroless nickel shell w/ PPS insulator
- 3 Electrodeposited cadmium shell w/ PPS insulator ☒
- 4 Hard anodized black shell w/ PPS insulator
- 5 Stainless steel shell w/ PPS insulator

SIZE

XXX 009, 015, 021, 025, 031, 037, 051, 069

CONTACTS

- TYPE CONTACTS/TERMINATIONS:
- 32 Pin, right angle, PCB leads, .109"
- 33 Pin, right angle, PCB leads, .140"
- 34 Pin, right angle, PCB leads, .172"
- PLATING OPTIONS:
- 3 50 μ " Au contacts: Au terminations
- 5 50 μ " Au contacts; Sn/Pb alloy terminations ☒
- 7 50 μ " Au contacts; SAC305 terminations

HARDWARE

- STYLE OF HARDWARE:
- 00 None
- 22 Two fixed jacknuts
- 41 Two turning jackscrews, allen head, retaining ring****
- 99 Keying hardware, see options below (Body material 2, 3 and 4 only)
- POLARIZATION / WIRING:
- 0R Reversed body polarization
- 0S Standard body polarization

OPTIONS

- KPXX Two fixed jacknuts
- 0B7 Threaded inserts, standard body polarization

NOTES

See page MA-6 for keying options
 **** = Connector body has no mounting holes.
☒ = Option not RoHS compliant

RECEPTACLE

SERIES

MK .050" Rugged Metal PC Board Mount Connector (MK mates with MK, ML, MM, MN plugs)

BODY

- 2 2-Row (Sizes 9 thru 37)
- 3 3-Row (Size 51 & 69)
- BODY STYLE: Blind Cut
- S Receptacle, right angle (thru clearance cut), narrow footprint, w/ mounting holes
- BODY MATERIAL:
- 2 Electroless nickel shell w/ PPS insulator
- 3 Electrodeposited cadmium shell w/ PPS insulator ☒
- 4 Hard anodized black shell w/ PPS insulator
- 5 Stainless steel shell w/ PPS insulator

SIZE

XXX 009, 015, 021, 025, 031, 037, 051, 069

CONTACTS

- TYPE CONTACTS/TERMINATIONS:
- 43 Socket, right angle, PCB leads, .109"
- 44 Socket, right angle, PCB leads, .140"
- 45 Socket, right angle, PCB leads, .172"
- PLATING OPTIONS:
- 3 50 μ " Au contacts: Au terminations
- 5 50 μ " Au contacts; Sn/Pb alloy terminations ☒
- 7 50 μ " Au contacts; SAC305 terminations

HARDWARE

- STYLE OF HARDWARE:
- 00 None
- 22 Two fixed jacknuts
- 41 Two turning jackscrews, allen head, retaining ring****
- 99 Keying hardware, see options below (Body material 2, 3 and 4 only)
- POLARIZATION / WIRING:
- 0R Reversed body polarization
- 0S Standard body polarization

OPTIONS

- KPXX Two fixed jacknuts and interfacial sealing gasket.
- 900 Interfacial sealing gasket
- 0B7 Threaded inserts and interfacial sealing gasket, standard body polarization.

NOTES

See page MA-6 for keying options
 **** = Connector body has no mounting holes.
☒ = Option not RoHS compliant

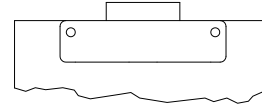


Recommended PC Board Layout

Right Angle, Narrow Footprint
Standard Polarization

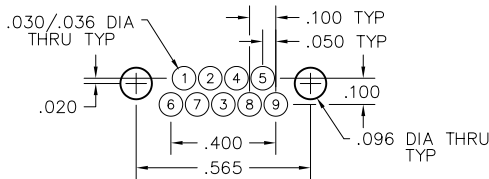


CONNECTOR MATING FACE



PC BOARD LAYOUT
COMPONENT SIDE

PLUG
PC BOARD LAYOUT
COMPONENT SIDE

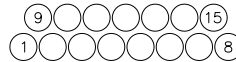
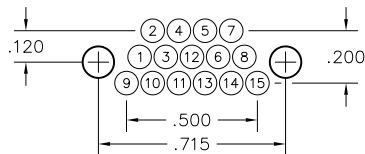
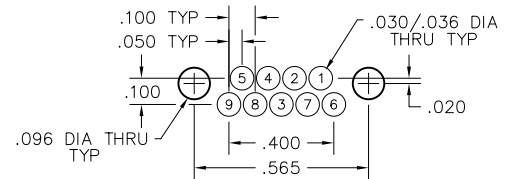


**CONNECTOR
MATING FACE*
(RECEPTACLE)**

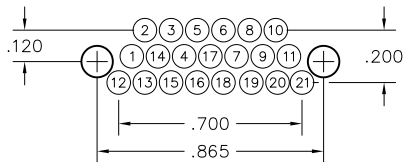
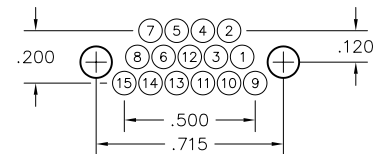


9 POSITION

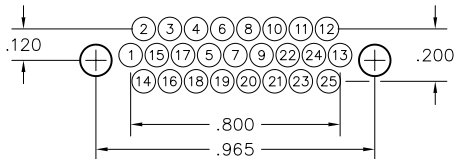
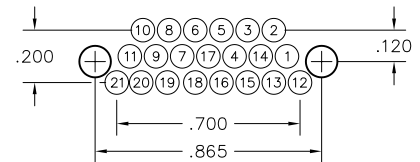
RECEPTACLE
PC BOARD LAYOUT
COMPONENT SIDE



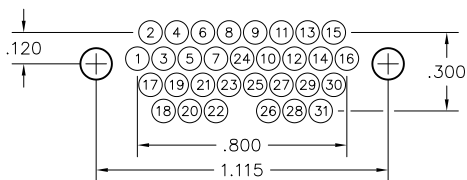
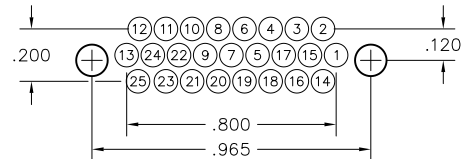
15 POSITION



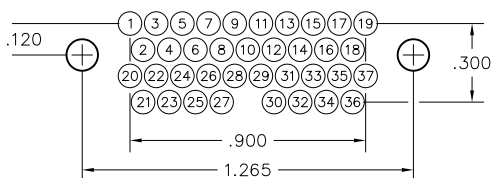
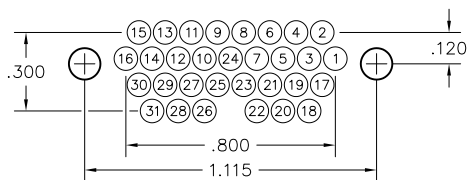
21 POSITION



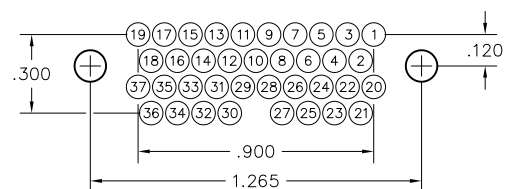
25 POSITION



31 POSITION

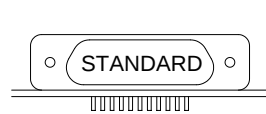


37 POSITION

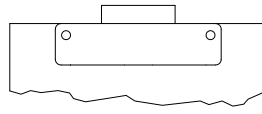


Recommended PC Board Layout

Right Angle, Narrow Footprint
Standard Polarization

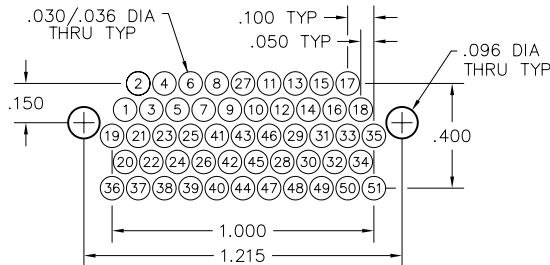


CONNECTOR MATING FACE

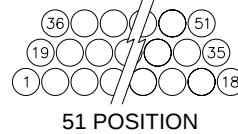


PC BOARD LAYOUT
COMPONENT SIDE

PLUG
PC BOARD LAYOUT
COMPONENT SIDE

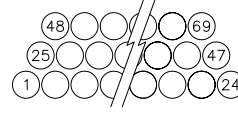
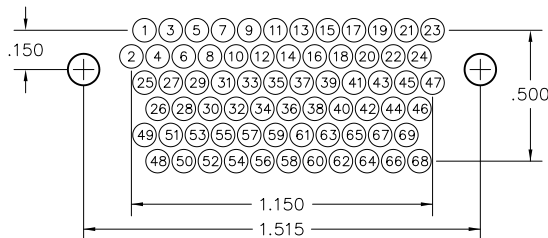
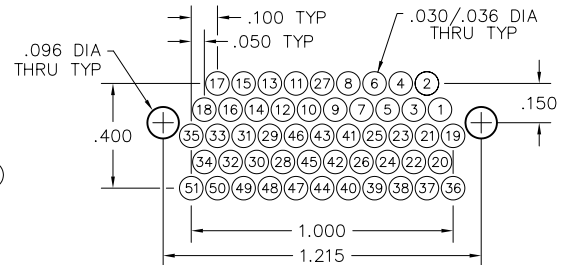


CONNECTOR
MATING FACE*
(RECEPTACLE)

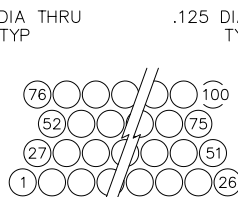
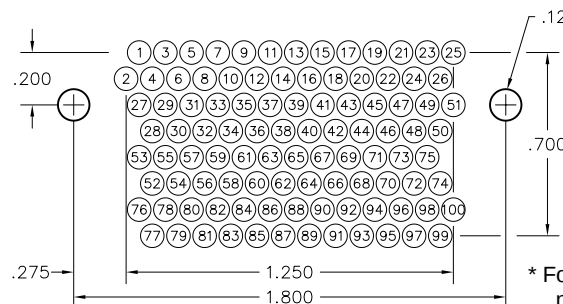
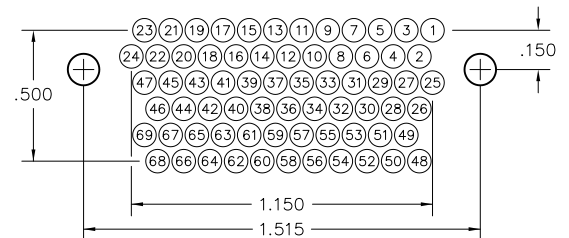


51 POSITION

RECEPTACLE
PC BOARD LAYOUT
COMPONENT SIDE

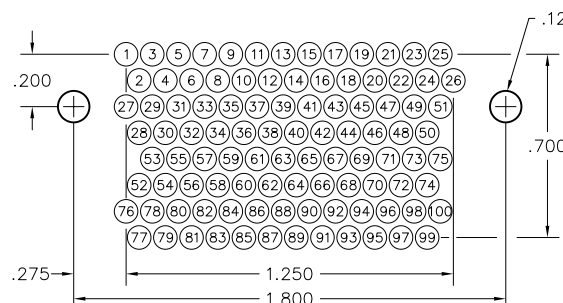
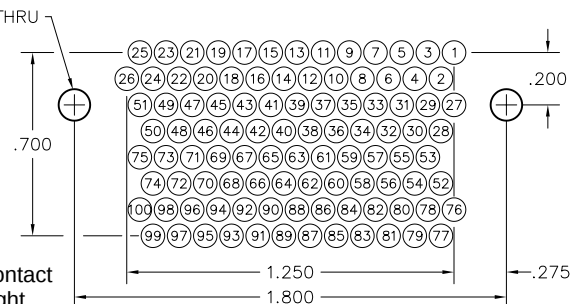


** 69 POSITION



*** 100 POSITION

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



Mil-Spec Footprint

For Mil-Spec footprint, use "Option" -94P

** = 69 and 100 positions not available in low profile (MS, MR)

*** = 100 position not available in thru-cut body style (R, S)

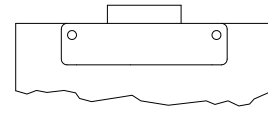


Recommended PC Board Layout

Right Angle, Narrow Footprint
Reverse Polarization

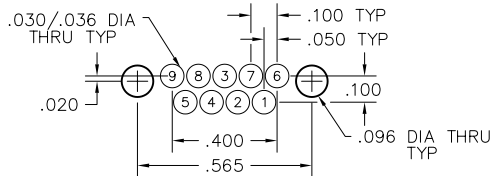


CONNECTOR MATING FACE



PC BOARD LAYOUT
COMPONENT SIDE

PLUG
PC BOARD LAYOUT
COMPONENT SIDE

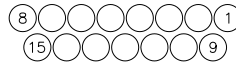
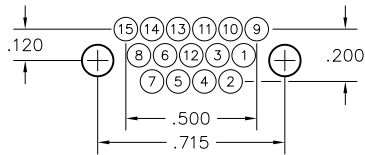
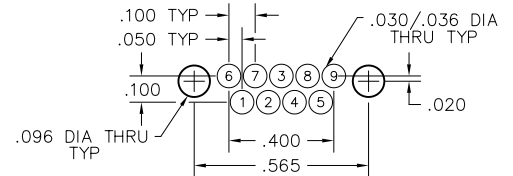


CONNECTOR
MATING FACE*
(RECEPTACLE)

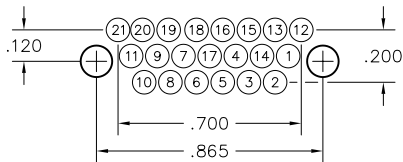
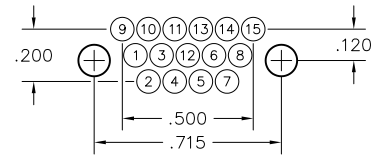


9 POSITION

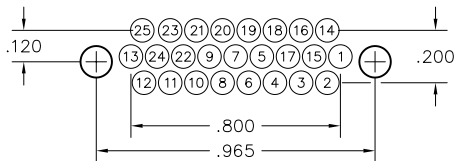
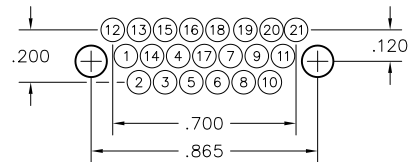
RECEPTACLE
PC BOARD LAYOUT
COMPONENT SIDE



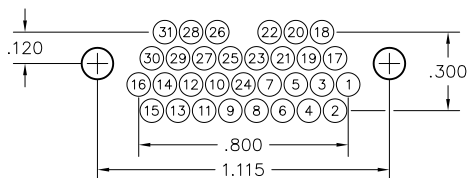
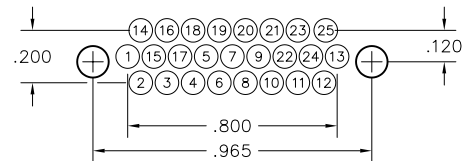
15 POSITION



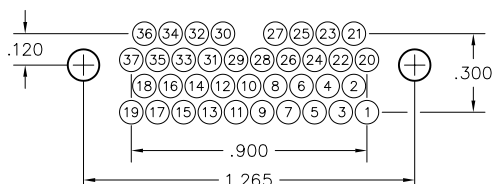
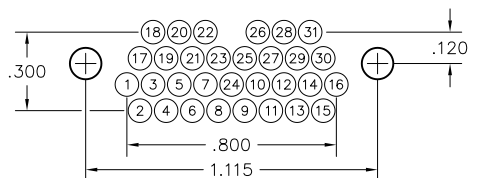
21 POSITION



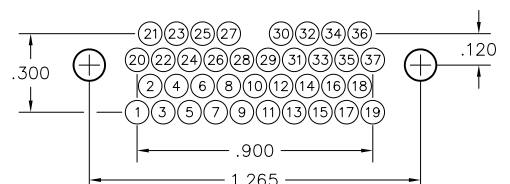
25 POSITION



31 POSITION



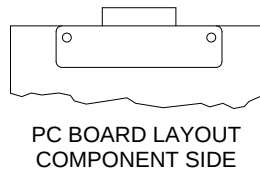
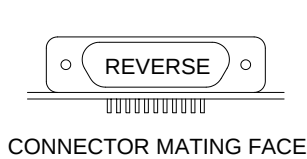
37 POSITION



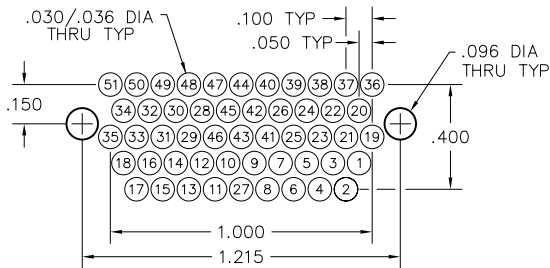


Recommended PC Board Layout

Right Angle, Narrow Footprint
Reverse Polarization



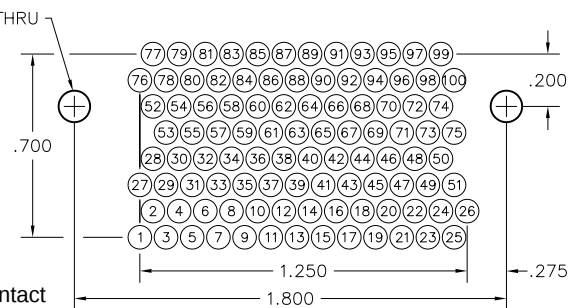
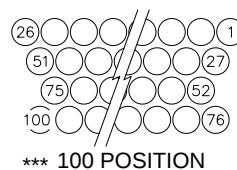
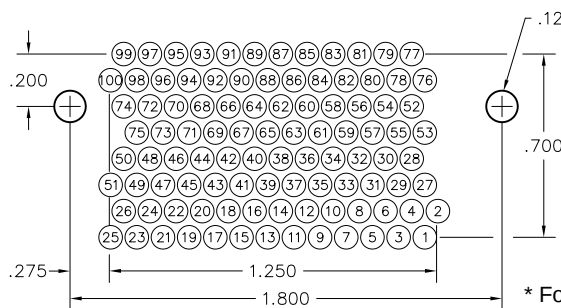
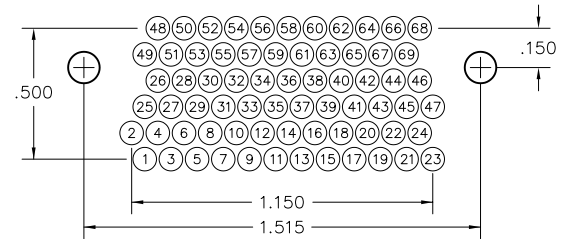
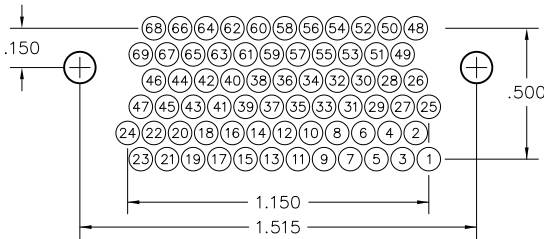
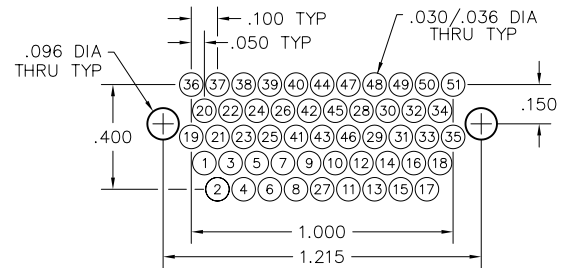
PLUG PC BOARD LAYOUT COMPONENT SIDE



CONNECTOR MATING FACE* (RECEPTACLE)



RECEPTACLE PC BOARD LAYOUT COMPONENT SIDE



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

** = 69 and 100 positions not available in low profile (MS, MR)

*** = 100 position not available in thru-cut body style (R, S)