

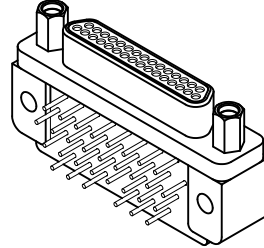


Right Angle Boardmount (Narrow Footprint)

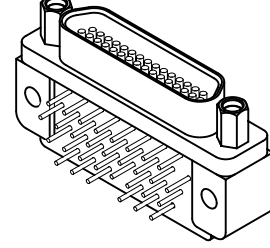
.050"
9 thru 100 Contacts

MK, ML

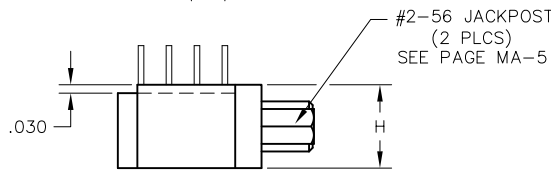
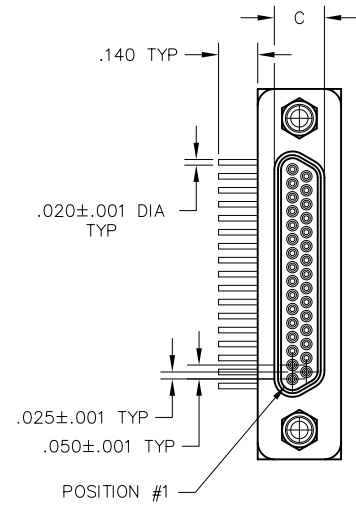
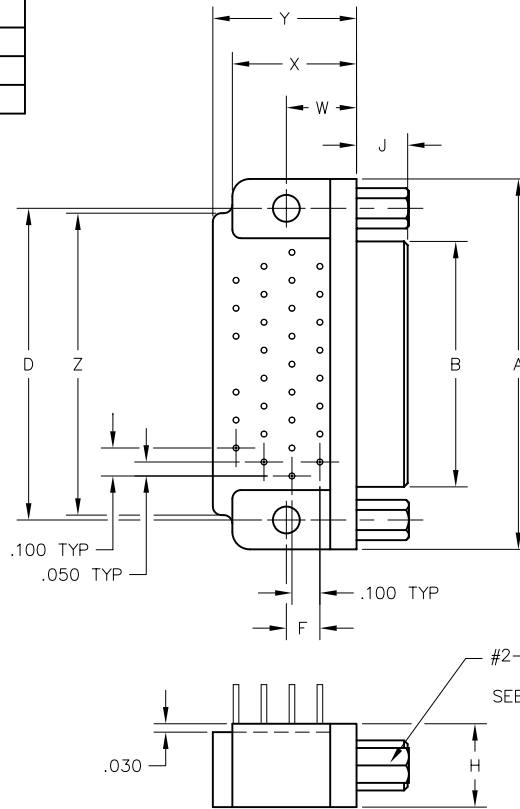
MK-252-031-335-220S
(PLUG)



MK-262-031-445-220S
(RCPT)



MATING MATRIX	
CONNECTOR	MATES WITH
MK-25...	MK, ML, MM, MN receptacles
ML-25...	MK, ML, MM, MN receptacles
MK-26..	MK, ML, MM, MN plugs
ML-26..	MK, ML, MM, MN plugs



(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	.096 DIA OR #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								1.175		
31		1.325	.884	.950			1.115								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		
100	4	2.160	1.384	1.508	.271	.394	1.800	.200	.384			.400	.590	1.000	1.810	#4-40 UNC THD	.125 DIA #2-56 UNC INSERT #4-40 UNC INSERT

PLUG: MK-252-031-335-220S
RECEPTACLE: MK-262-031-445-220S
 XX-XXX-XXX-XXX-XXXX-XXX
 | | | | |
 BODY CONTACTS OPTIONS
 SERIES SIZE HARDWARE

PLUG

SERIES

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

BODY

- 2 2-Row (Sizes 9 thru 37)
- 3 3-Row (Size 51 & 69***)
- 4 4-Row (Size 100)
- BODY STYLE:
- 5 Plug, right angle, narrow footprint, w/ mounting holes
- BODY MATERIAL:
- 1 Polyphenylene Sulfide (ML only)
- 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***, 100

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 (62*)
- 41 Two turning jackscrews, allen head, retaining ring****(81*)
- 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 (KN*)
- 94P Mil-Spec footprint (size 100 only), standard body polarization
- 0B7 #2-56 threaded inserts, standard body polarization
- 0BJ Mil-Spec footprint (size 100 only) with #2-56 threaded inserts, standard body polarization
- 0H7 #4-40 threaded inserts (size 100 only), standard body polarization
- 0H6 Mil-Spec footprint (size 100 only) with #4-40 threaded inserts, standard body polarization

NOTES

See page MA-6 for keying options

* = Use numbers in parenthesis when ordering size 100.

*** = 69 position connectors are available in metal only.

**** = Connector body has no mounting holes.

☒ = Option not RoHS compliant

RECEPTACLE

SERIES

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

BODY

- 2 2-Row (Sizes 9 thru 37)
- 3 3-Row (Size 51 & 69***)
- 4 4-Row (Size 100)
- BODY STYLE:
- 6 Receptacle, right angle, narrow footprint, w/ mounting holes
- BODY MATERIAL:
- 1 Polyphenylene Sulfide (ML only)
- 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***, 100

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, u" Au contacts: SAC305 terminations

HARDWARE

STYLE OF HARDWARE:

- 00 None
- 22 Two fixed jacknuts (62*)
- 41 Two turning jackscrews, allen head, retaining ring****(81*)
- 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 (KN*) and interfacial sealing gasket.
- 900 Interfacial sealing gasket
- 0B7 #2-56 Threaded inserts and interfacial sealing gasket standard body polarization
- 0H7 #4-40 threaded inserts (size 100 only), and interfacial sealing gasket, standard body polarization

NOTES

See page MA-6 for keying options

* = Use numbers in parenthesis when ordering size 100.

*** = 69 position connectors are available in metal only.

**** = Connector body has no mounting holes.

☒ = Option not RoHS compliant

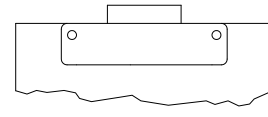


Recommended PC Board Layout

Right Angle, Narrow Footprint
Reverse Polarization

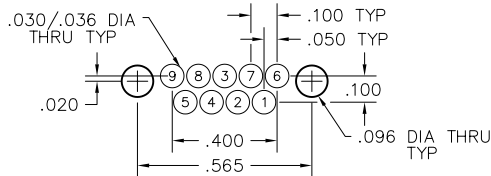


CONNECTOR MATING FACE



PC BOARD LAYOUT
COMPONENT SIDE

PLUG
PC BOARD LAYOUT
COMPONENT SIDE

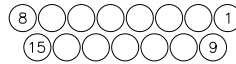
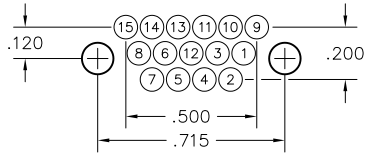
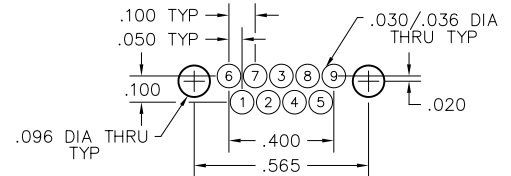


CONNECTOR
MATING FACE*
(RECEPTACLE)

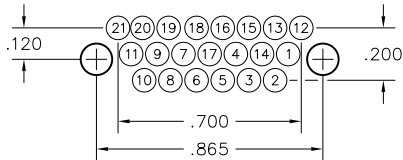
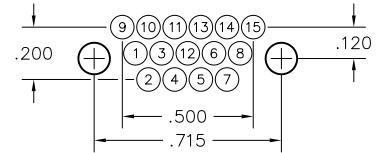


9 POSITION

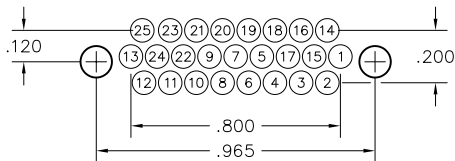
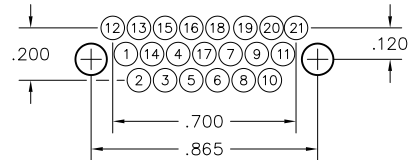
RECEPTACLE
PC BOARD LAYOUT
COMPONENT SIDE



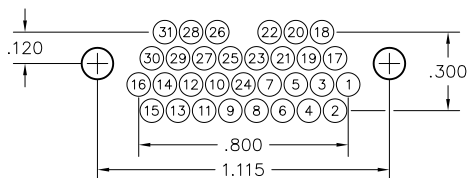
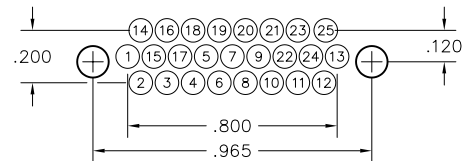
15 POSITION



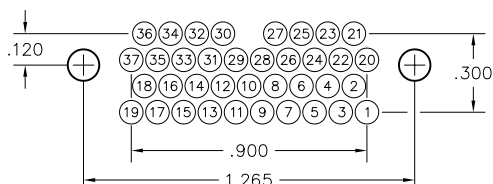
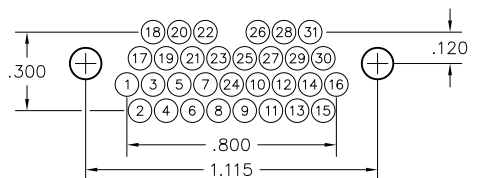
21 POSITION



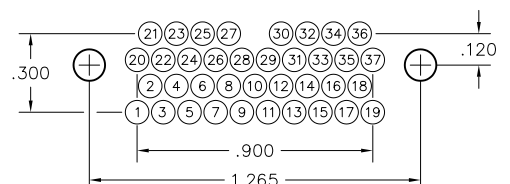
25 POSITION



31 POSITION

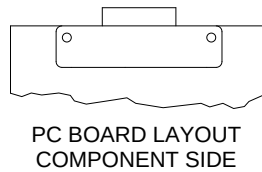
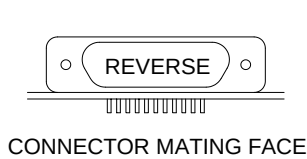


37 POSITION

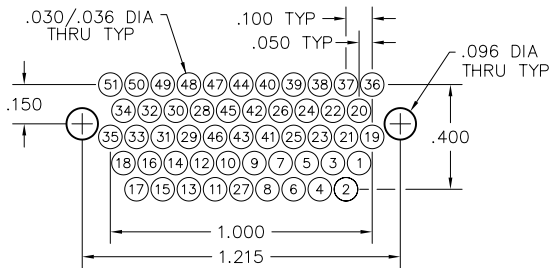


Recommended PC Board Layout

Right Angle, Narrow Footprint
Reverse Polarization



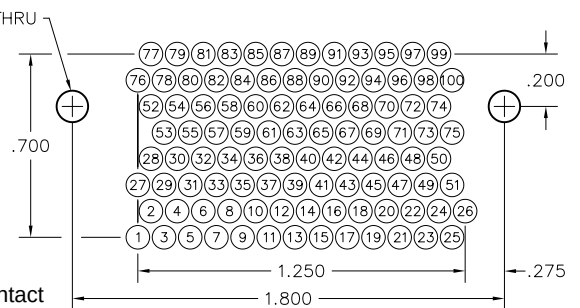
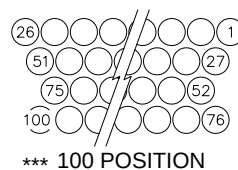
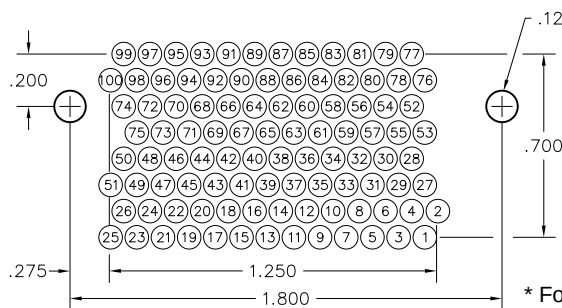
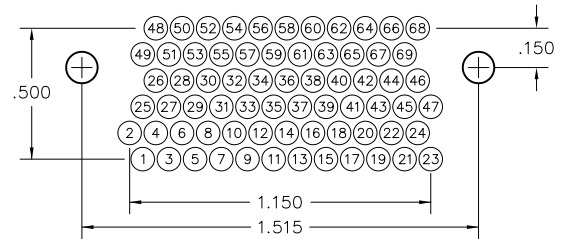
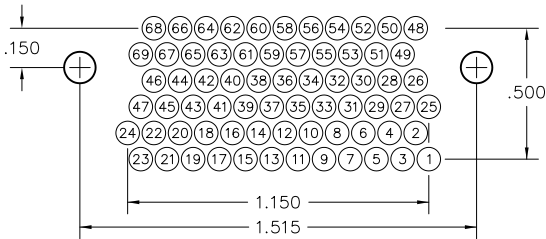
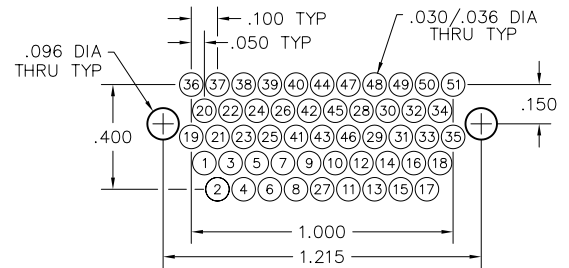
PLUG
PC BOARD LAYOUT
COMPONENT SIDE



**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)

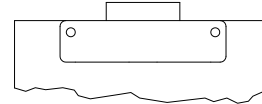


Recommended PC Board Layout

Right Angle, Narrow Footprint
Standard Polarization

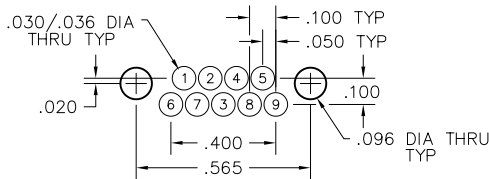


CONNECTOR MATING FACE



PC BOARD LAYOUT
COMPONENT SIDE

PLUG
PC BOARD LAYOUT
COMPONENT SIDE

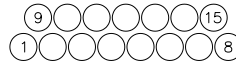
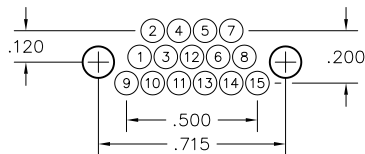
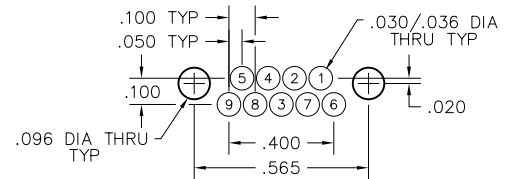


**CONNECTOR
MATING FACE*
(RECEPTACLE)**

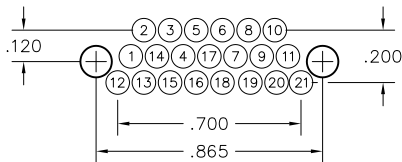
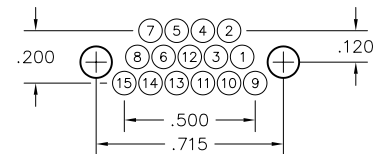


9 POSITION

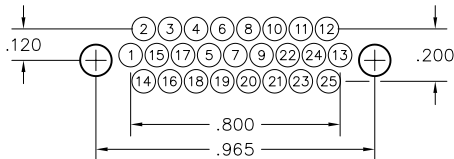
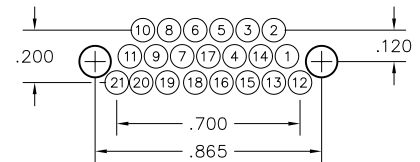
RECEPTACLE
PC BOARD LAYOUT
COMPONENT SIDE



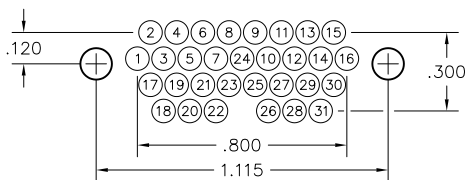
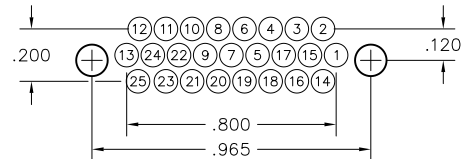
15 POSITION



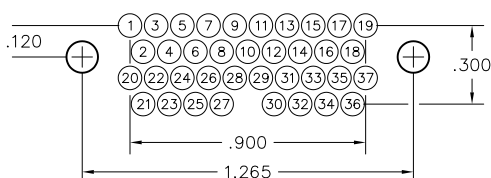
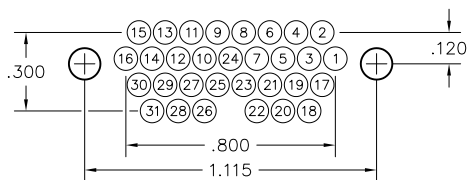
21 POSITION



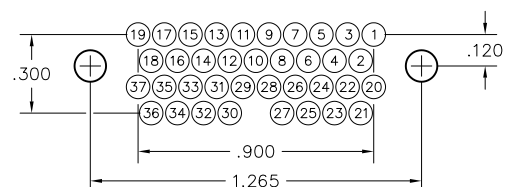
25 POSITION



31 POSITION

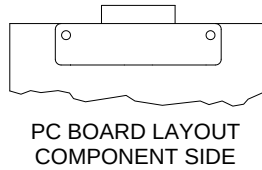
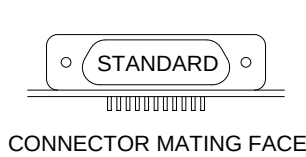


37 POSITION

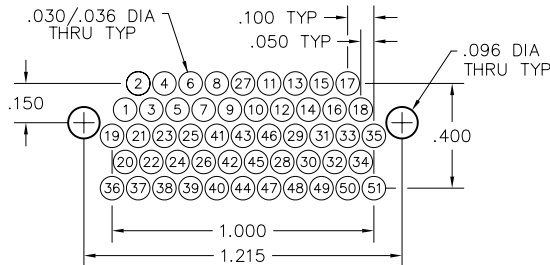


Recommended PC Board Layout

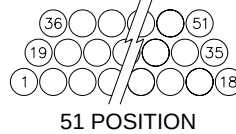
Right Angle, Narrow Footprint
Standard Polarization



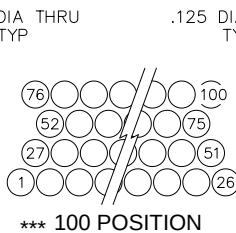
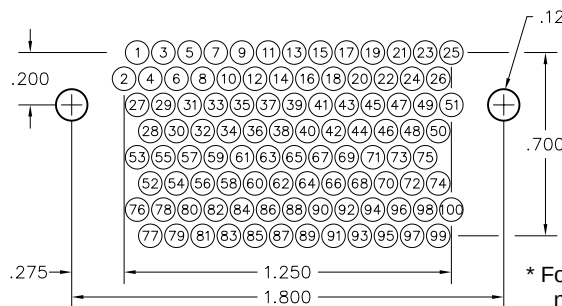
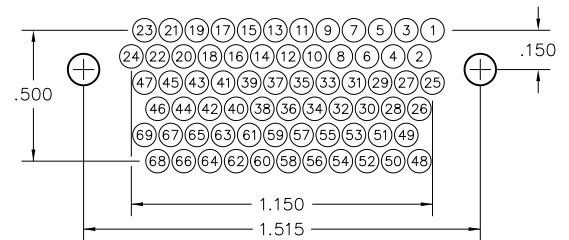
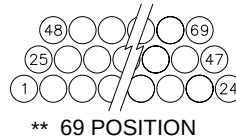
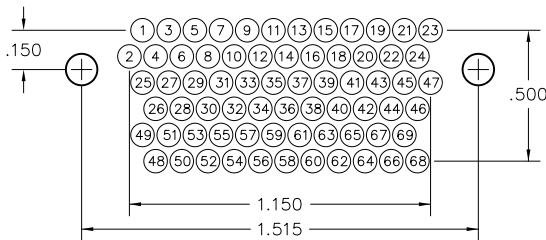
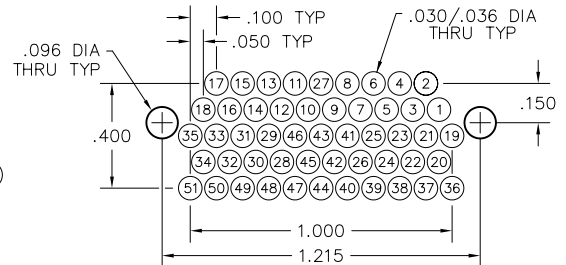
PLUG PC BOARD LAYOUT COMPONENT SIDE



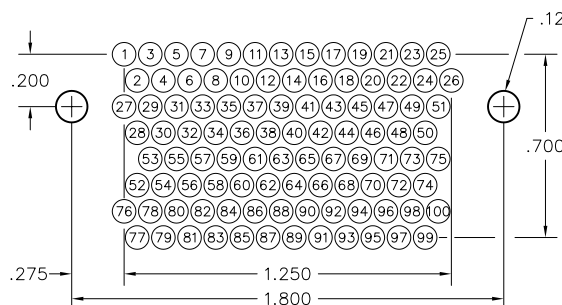
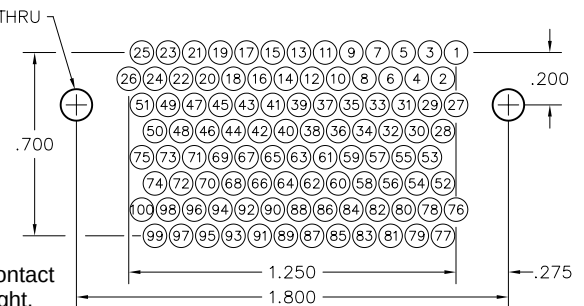
CONNECTOR MATING FACE* (RECEPTACLE)



RECEPTACLE PC BOARD LAYOUT COMPONENT SIDE



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



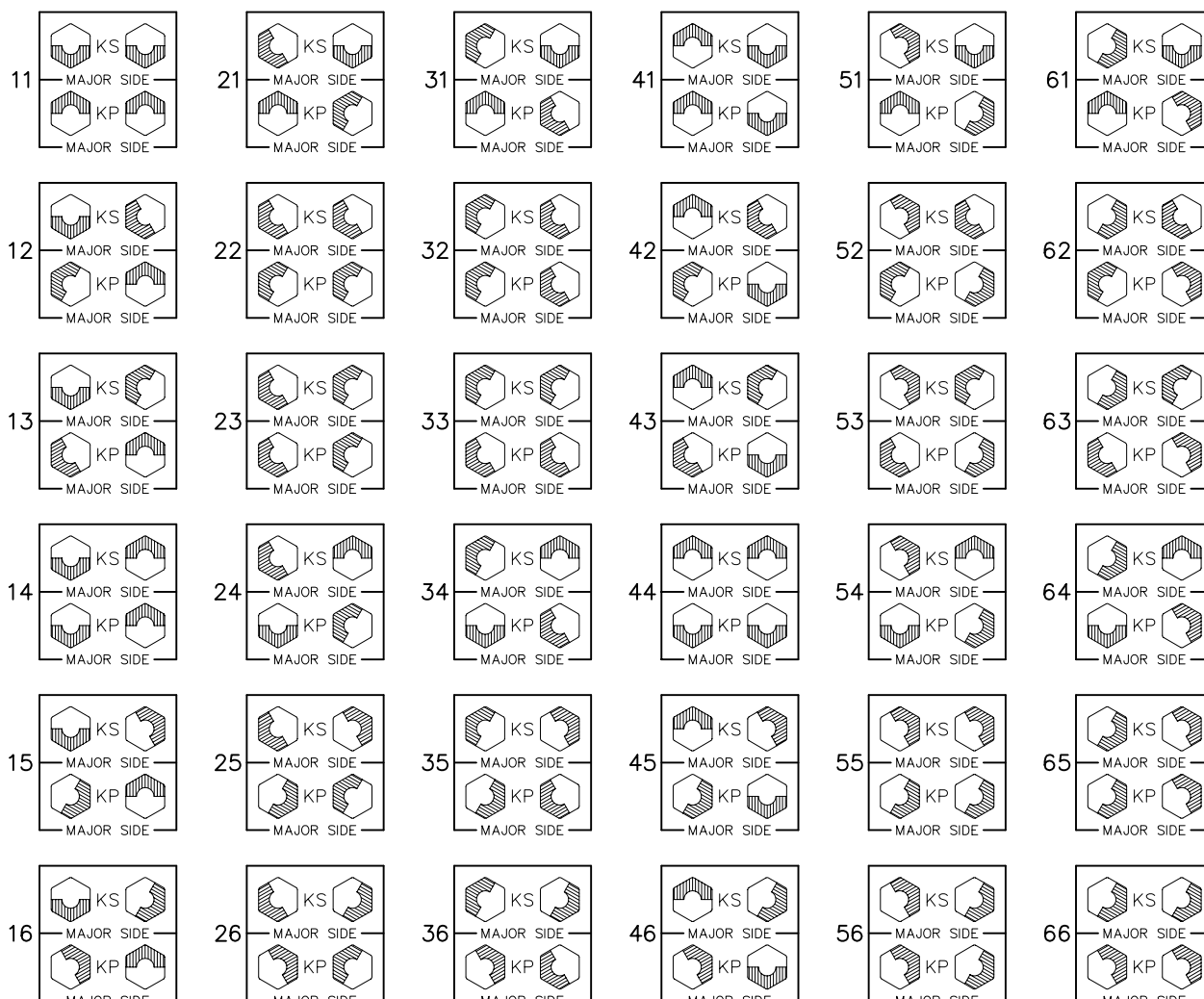
Mil-Spec Footprint

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)

Polarized Keying Hardware

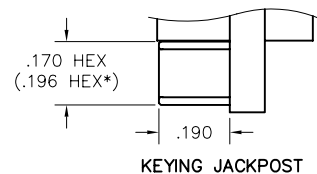
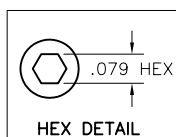
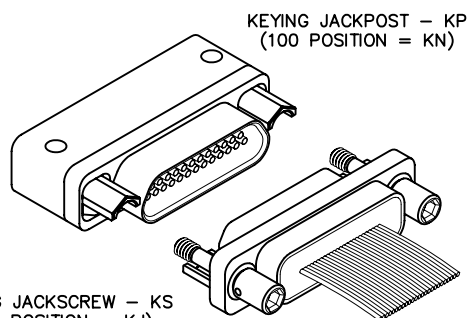


Select the appropriate two digit number above and include as the last two digits of the hardware code in the part number.
(Keying hardware is factory installed and non-removable).

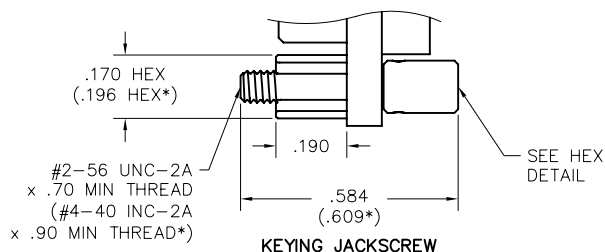
Example:

MM-213-025-161-99WA-KS11

MK-263-025-435-990S-KP11



KEYING JACKPOST



KEYING JACKSCREW

* = Dimensions for 100 position connectors