

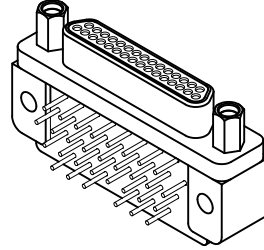


# Right Angle Boardmount (Narrow Footprint)

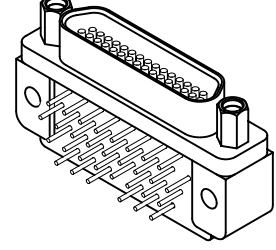
.050"  
9 thru 100 Contacts

**MK, ML**

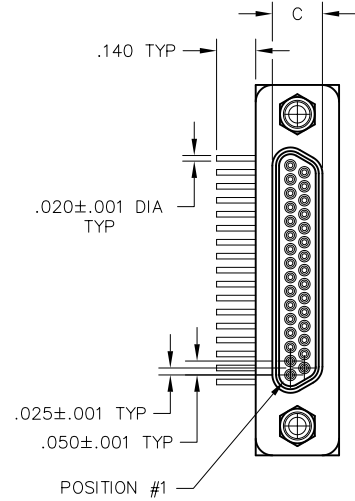
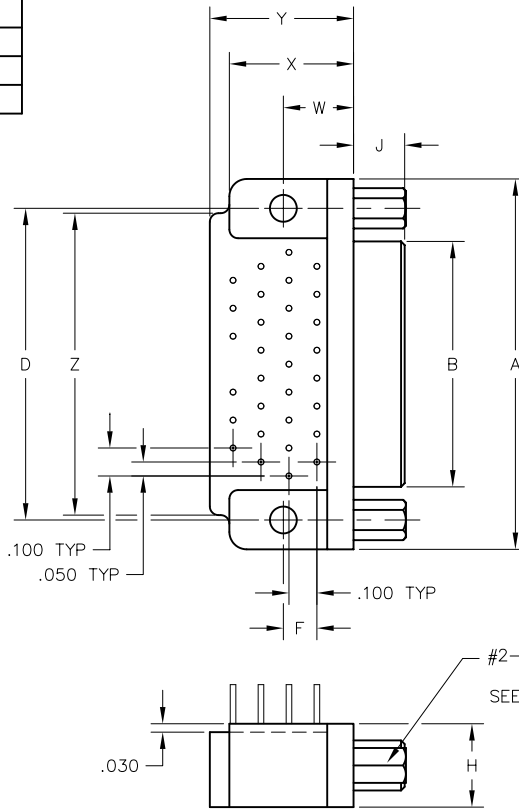
MK-252-031-335-220S (PLUG)



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	.120	.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											1.325
37		1.475	1.034	1.100			1.265											1.475
51	3	1.425	.984	1.050	.228	.294	1.215	.150	.341	.300	.430	.650	1.220	.755	1.450	#4-40 UNC THD	.125 DIA #2-56 UNC INSERT #4-40 UNC INSERT	
69		1.725	1.284	1.350			1.515											1.725
100		2.160	1.384	1.508			.271											.394

**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

### 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, receptacles)

#### BODY

- 2 2-Row (Sizes 9 thru 37)
  - 3 3-Row (Size 51 & 69\*\*\*)
  - 4 4-Row (Size 100)
- BODY STYLE: Blind Cut
- 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

#### 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: Blind Cut
- 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

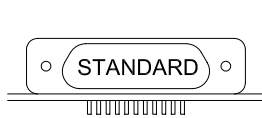
#### NOTES

- 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

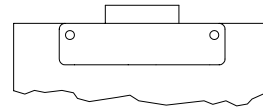


# Recommended PC Board Layout

Right Angle, Narrow Footprint  
Standard Polarization

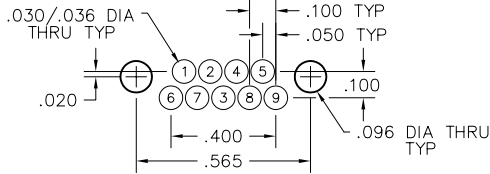


CONNECTOR MATING FACE

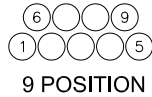


PC BOARD LAYOUT COMPONENT SIDE

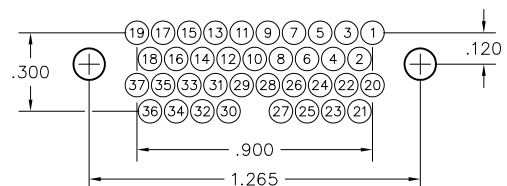
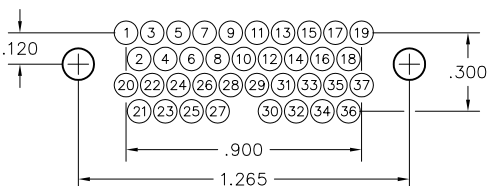
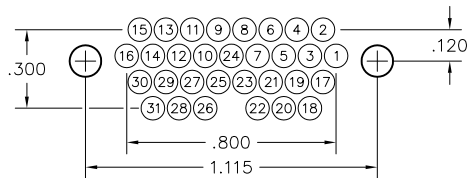
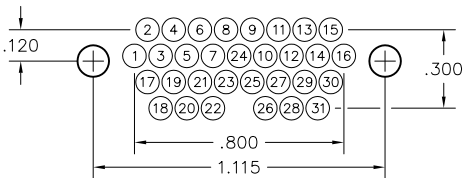
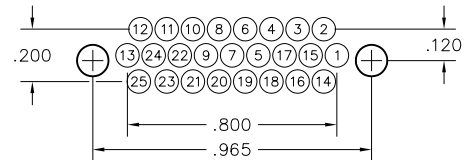
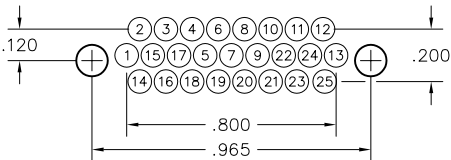
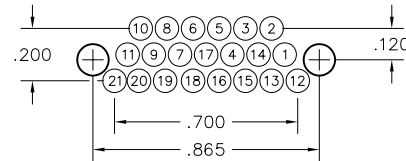
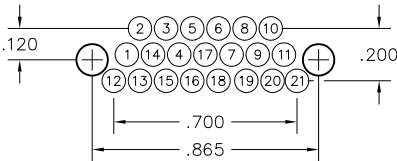
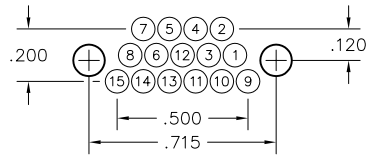
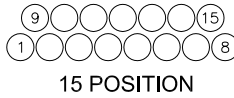
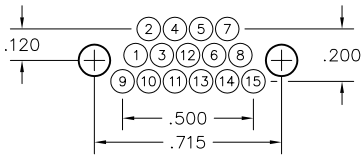
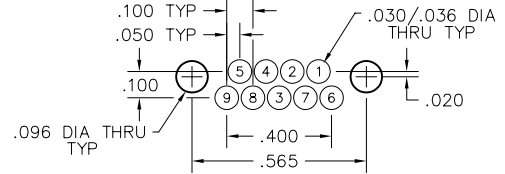
**PLUG**  
PC BOARD LAYOUT  
COMPONENT SIDE



CONNECTOR  
MATING FACE\*  
(RECEPTACLE)



**RECEPTACLE**  
PC BOARD LAYOUT  
COMPONENT SIDE



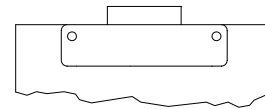


# Recommended PC Board Layout

Right Angle, Narrow Footprint  
Reverse Polarization

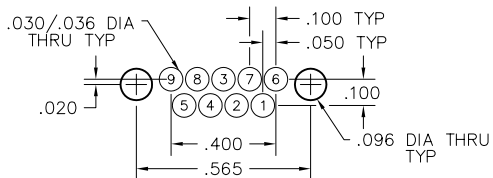


CONNECTOR MATING FACE

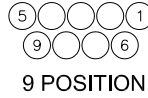


PC BOARD LAYOUT COMPONENT SIDE

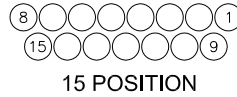
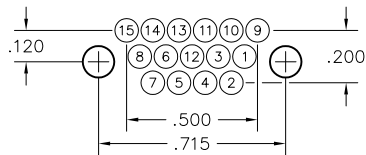
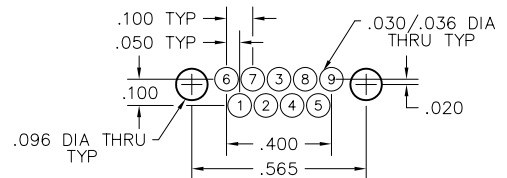
PLUG  
PC BOARD LAYOUT  
COMPONENT SIDE



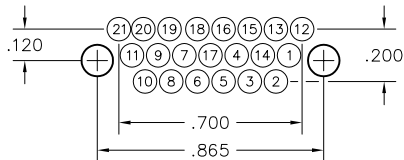
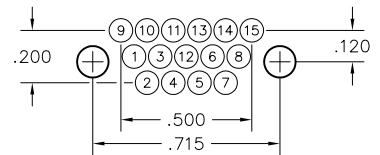
CONNECTOR  
MATING FACE\*  
(RECEPTACLE)



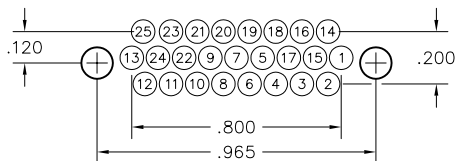
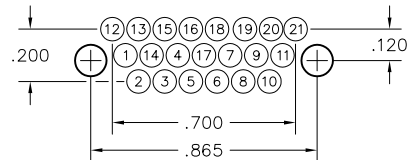
RECEPTACLE  
PC BOARD LAYOUT  
COMPONENT SIDE



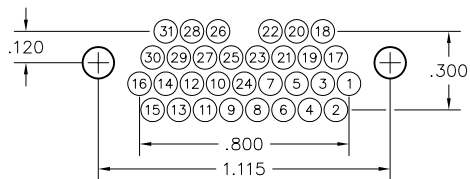
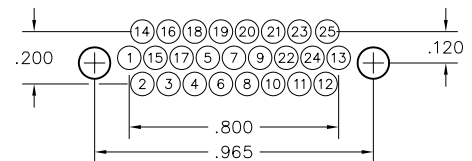
15 POSITION



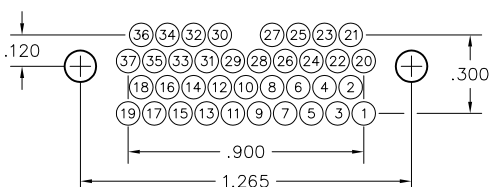
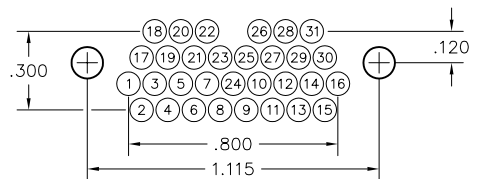
21 POSITION



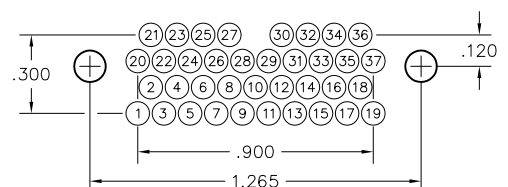
25 POSITION

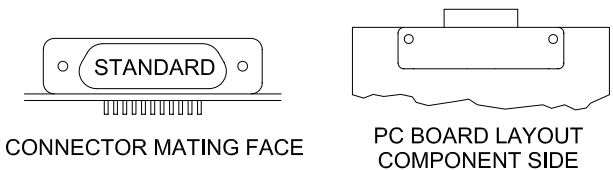


31 POSITION



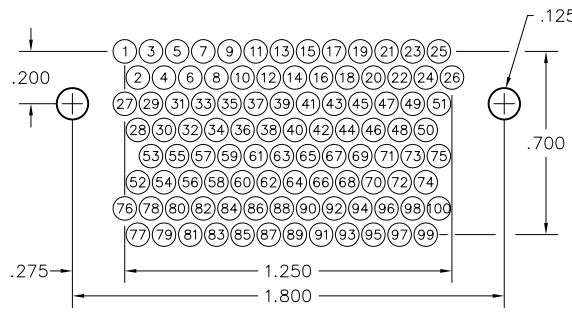
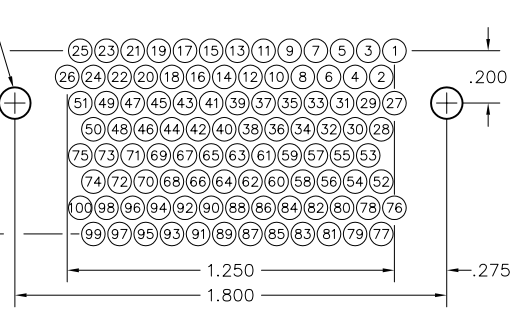
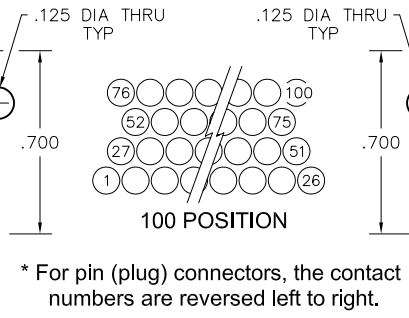
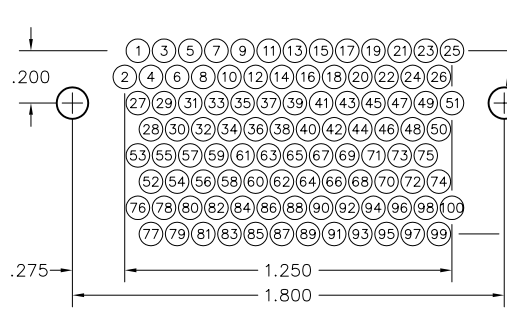
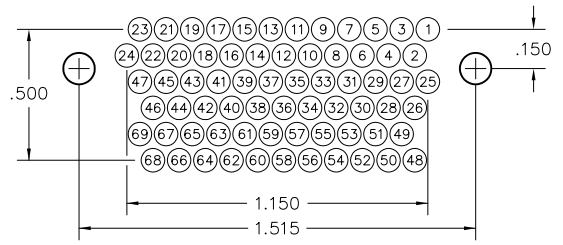
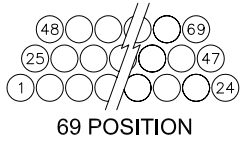
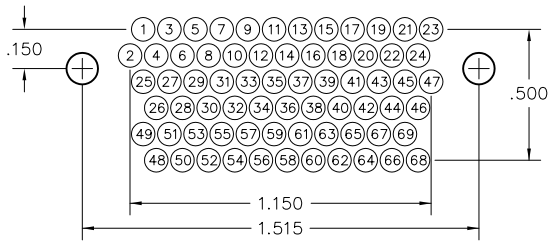
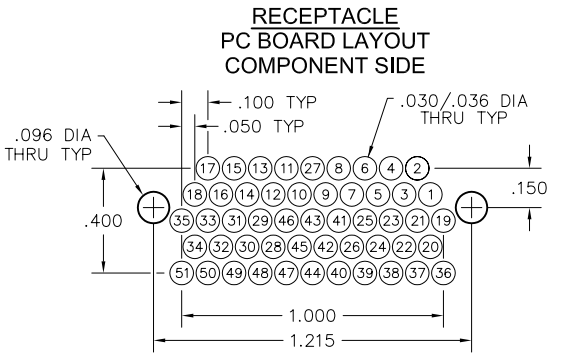
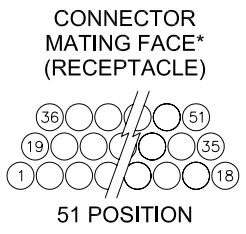
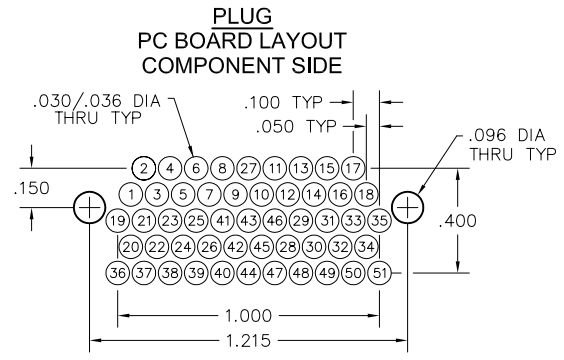
37 POSITION



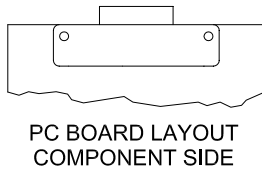
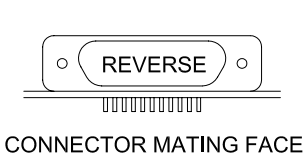


# Recommended PC Board Layout

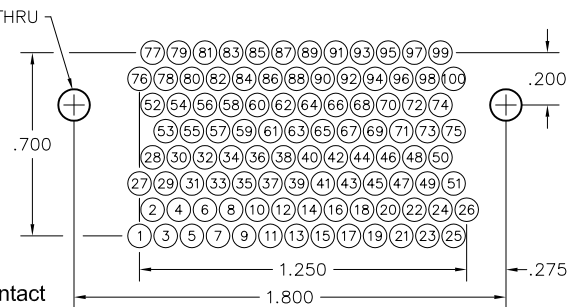
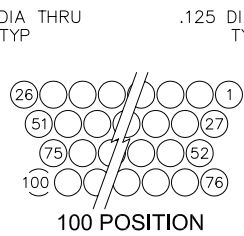
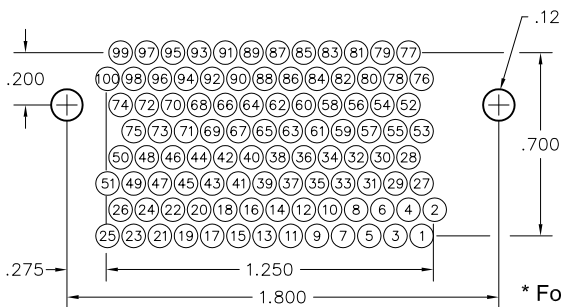
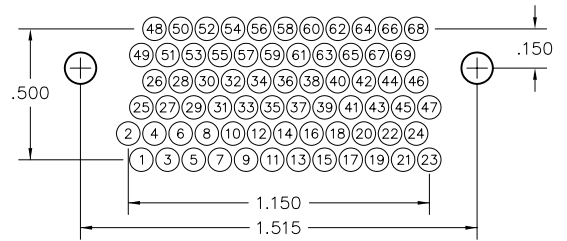
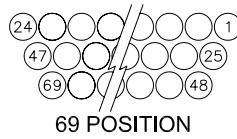
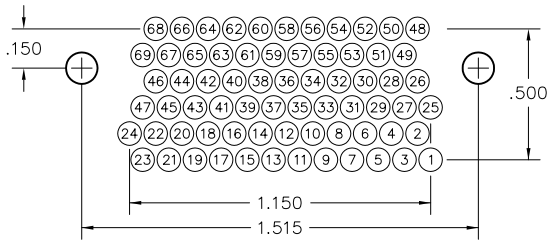
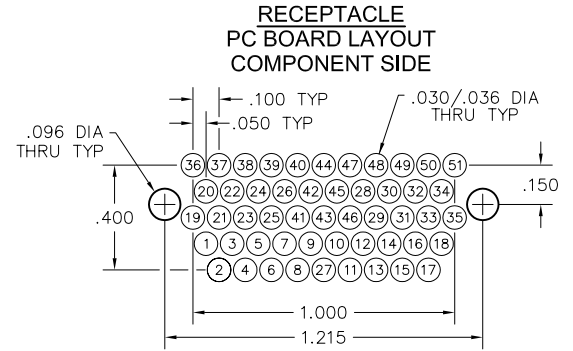
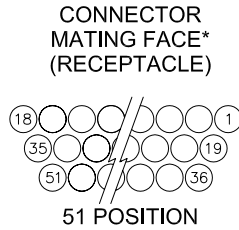
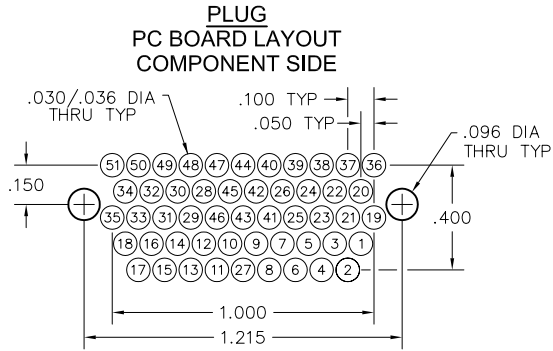
Right Angle, Narrow Footprint  
Standard Polarization



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

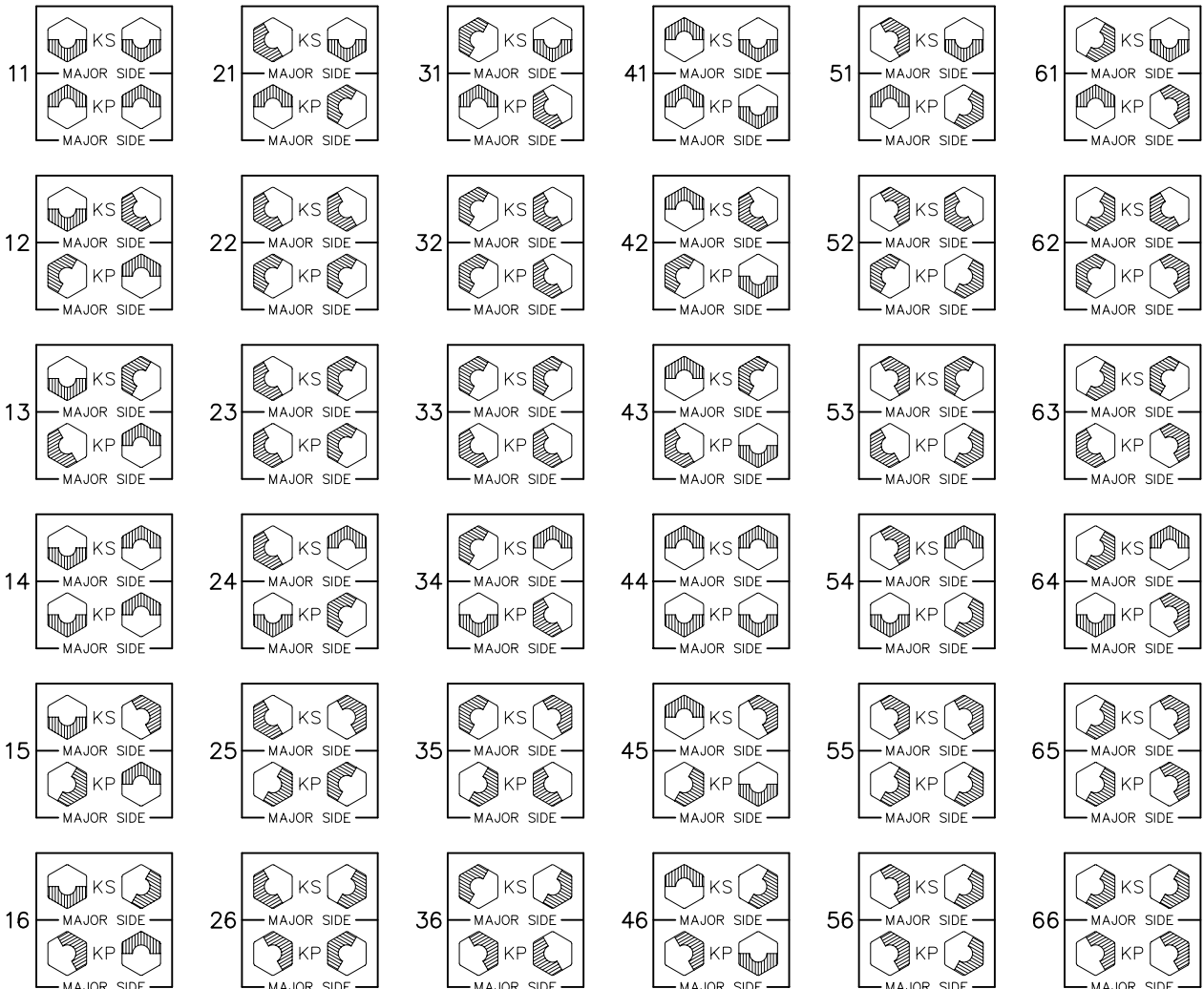


**AirBorn**  
**Recommended PC Board Layout**  
 Right Angle, Narrow Footprint  
 Reverse Polarization



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

# Polarized Keying Hardware

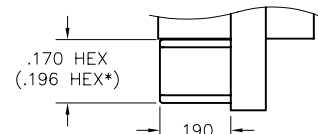
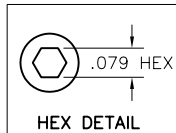
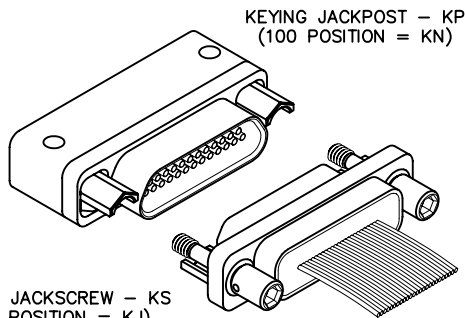


Select the appropriate two digit number above and include as the last two digits of the hardware code in the part number.  
(Keying hardware is factory installed and non-removable).

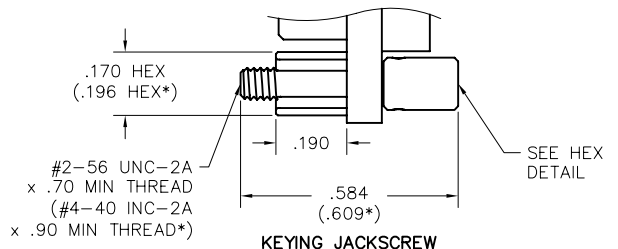
Example:

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

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



KEYING JACKPOST



KEYING JACKSCREW

\* = Dimensions for 100 position connectors