

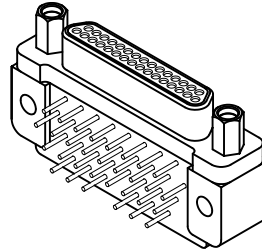


Right Angle Boardmount (Thru Clearance Cut)

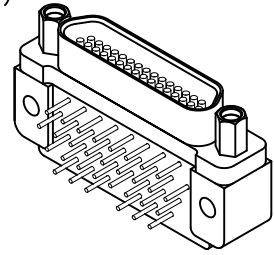
.050"
9 thru 100 Contacts

MK

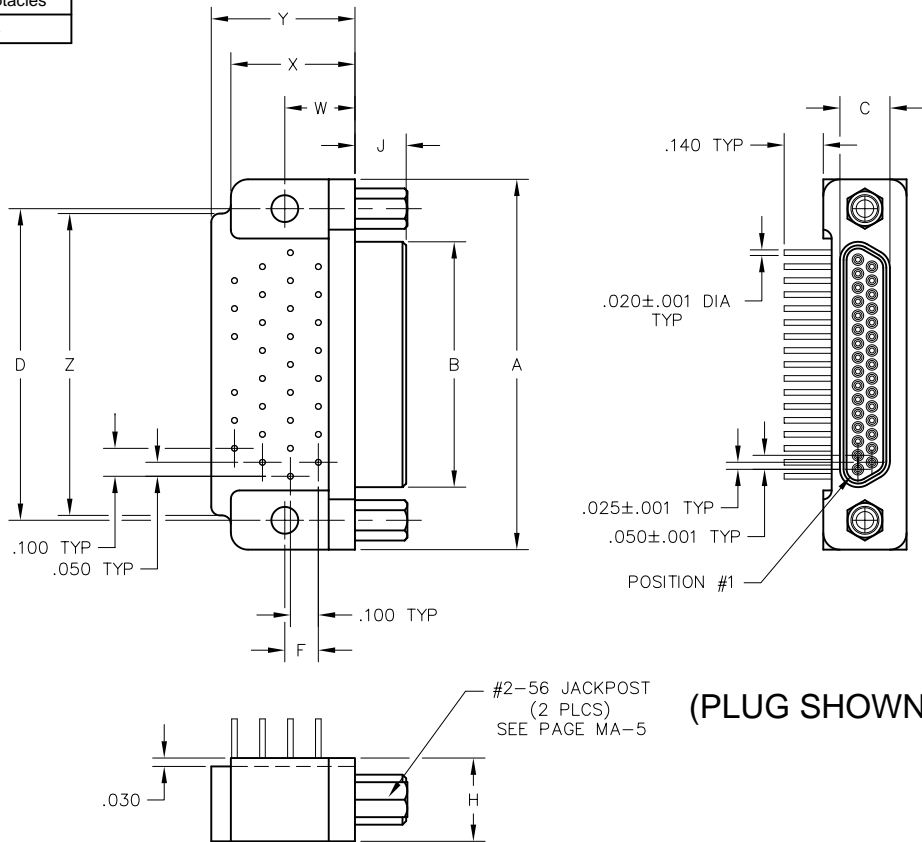
MK-2R2-031-335-220S
(PLUG)



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



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



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	.450	.520	.650	1.220	#2-56 UNC THD	.096 DIA OR #2-56 UNC THREADED INSERT	
69		1.725	1.284	1.350			1.515											.755

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, u" 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

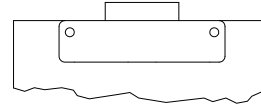


Recommended PC Board Layout

Right Angle, Narrow Footprint
Standard Polarization

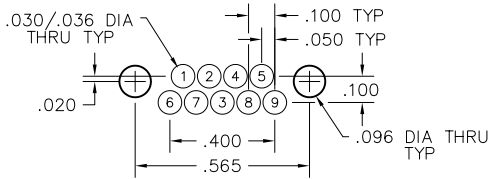


CONNECTOR MATING FACE

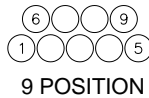


PC BOARD LAYOUT
COMPONENT SIDE

PLUG
PC BOARD LAYOUT
COMPONENT SIDE

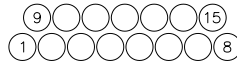
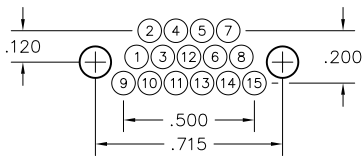
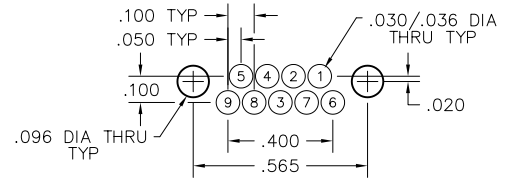


CONNECTOR
MATING FACE*
(RECEPTACLE)

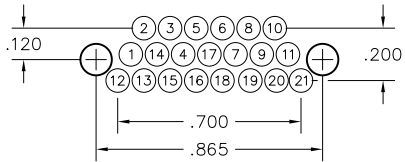
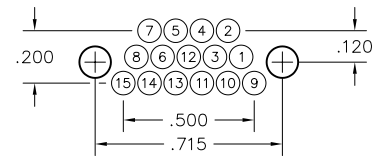


9 POSITION

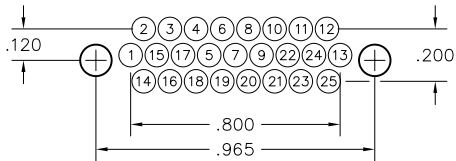
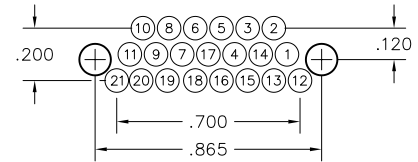
RECEPTACLE
PC BOARD LAYOUT
COMPONENT SIDE



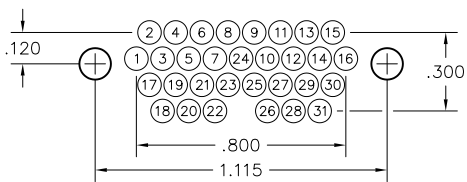
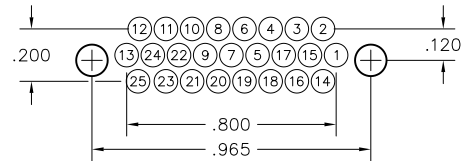
15 POSITION



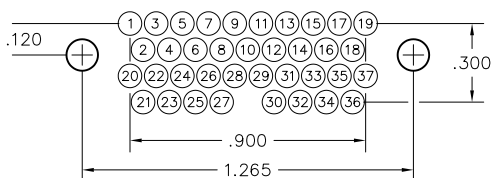
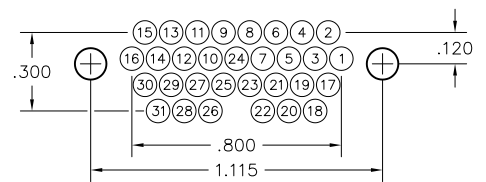
21 POSITION



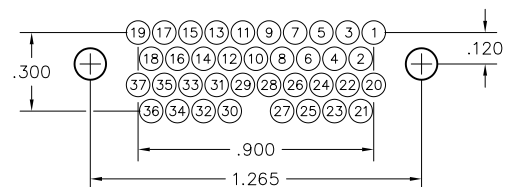
25 POSITION



31 POSITION

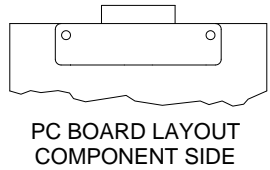
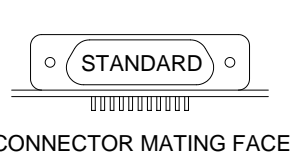


37 POSITION

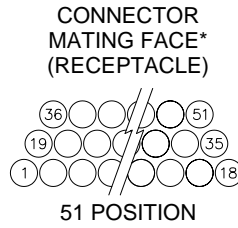
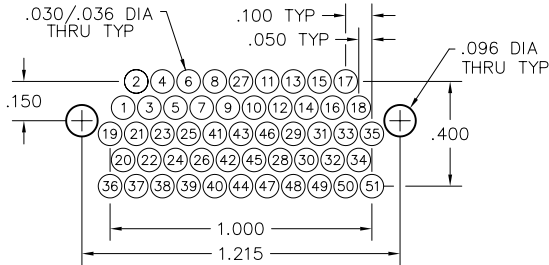


Recommended PC Board Layout

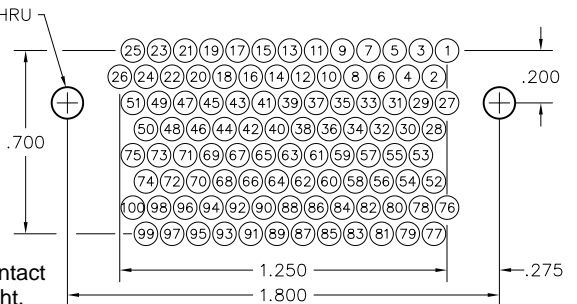
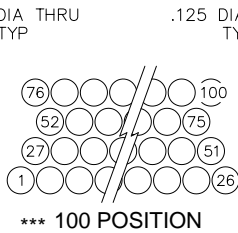
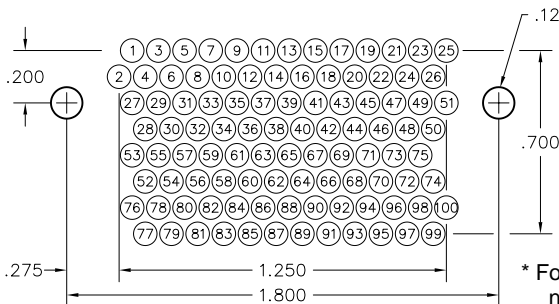
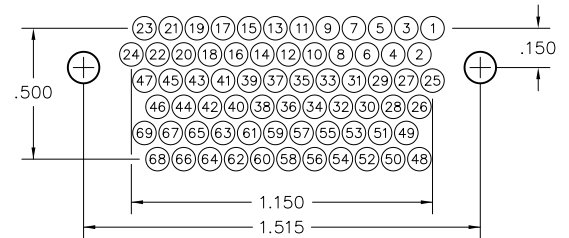
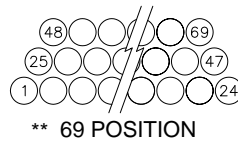
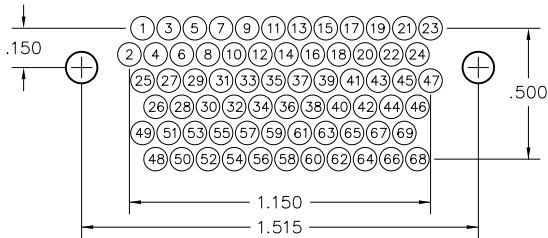
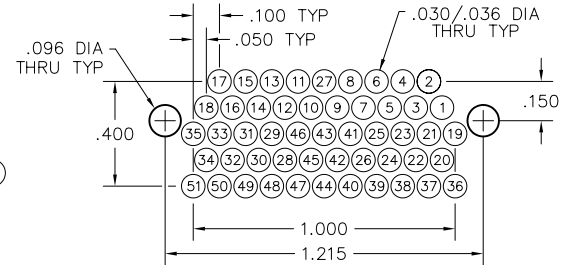
Right Angle, Narrow Footprint
Standard Polarization



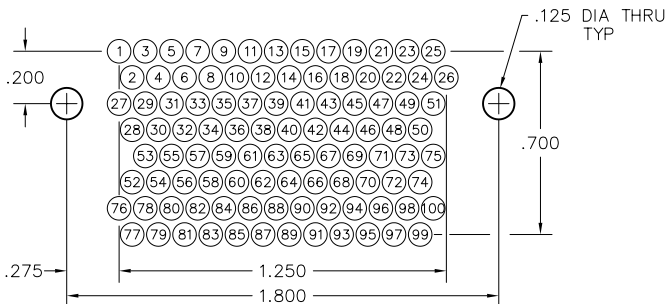
PLUG PC BOARD LAYOUT COMPONENT SIDE



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)

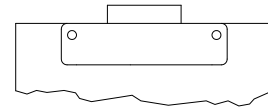


Recommended PC Board Layout

Right Angle, Narrow Footprint
Reverse Polarization

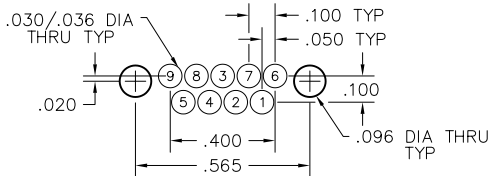


CONNECTOR MATING FACE



PC BOARD LAYOUT
COMPONENT SIDE

PLUG
PC BOARD LAYOUT
COMPONENT SIDE

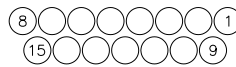
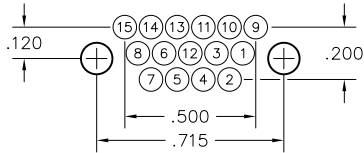
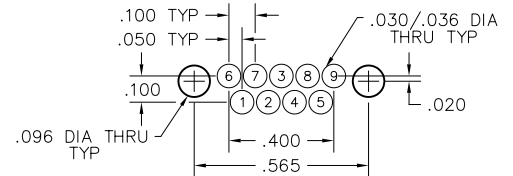


CONNECTOR
MATING FACE*
(RECEPTACLE)

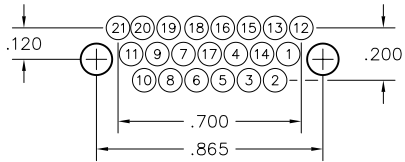
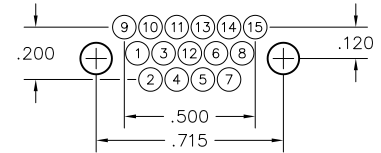


9 POSITION

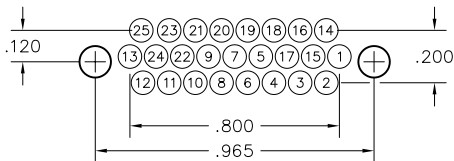
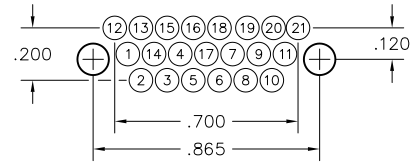
RECEPTACLE
PC BOARD LAYOUT
COMPONENT SIDE



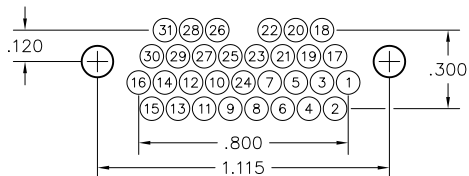
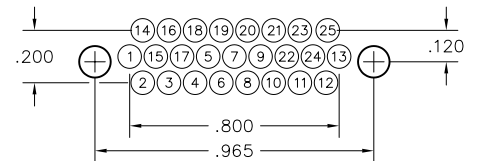
15 POSITION



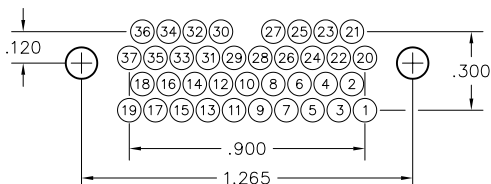
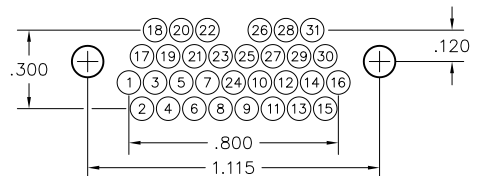
21 POSITION



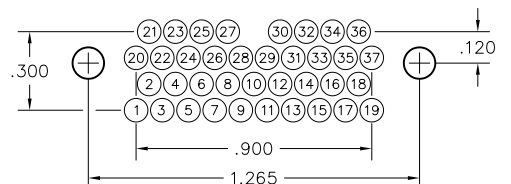
25 POSITION



31 POSITION

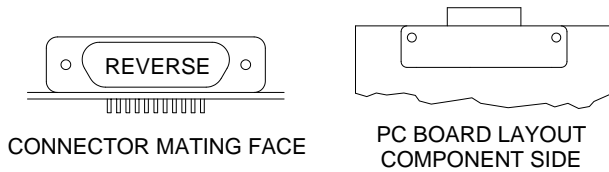


37 POSITION

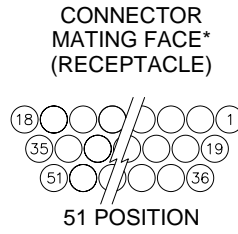
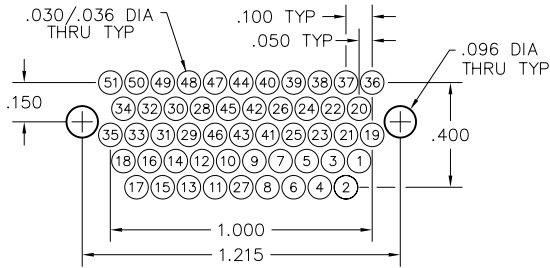


Recommended PC Board Layout

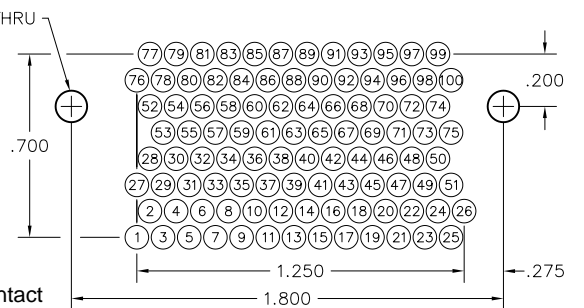
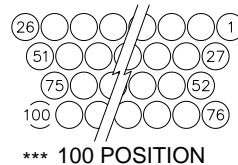
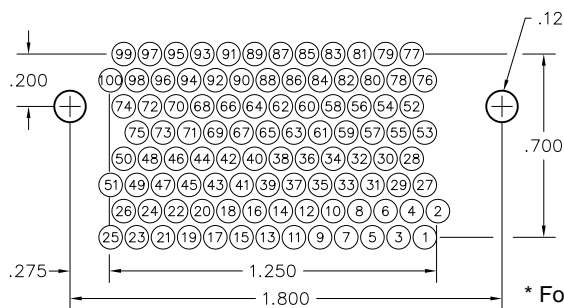
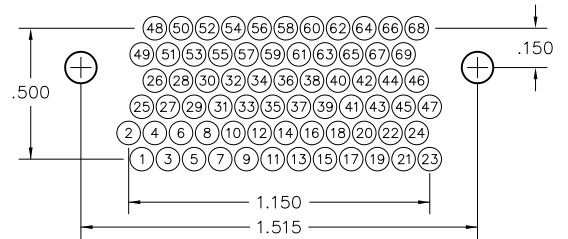
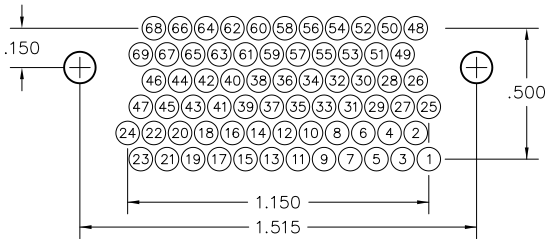
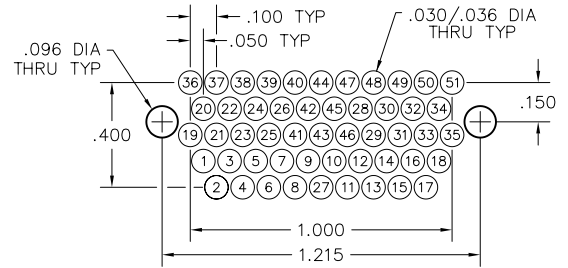
Right Angle, Narrow Footprint
Reverse Polarization



PLUG
PC BOARD LAYOUT
COMPONENT SIDE



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)