

**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

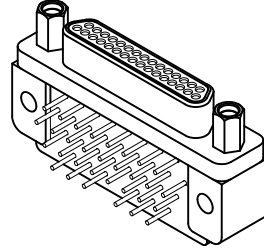


# Right Angle Boardmount (Narrow Footprint)

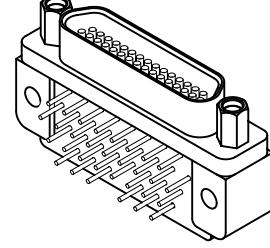
.050"  
9 thru 100 Contacts

**MK, ML**

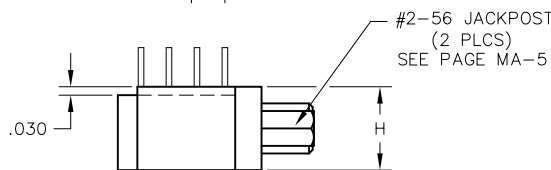
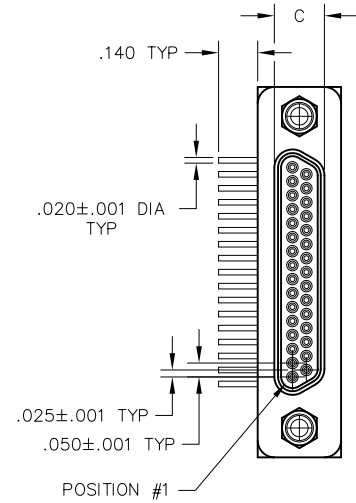
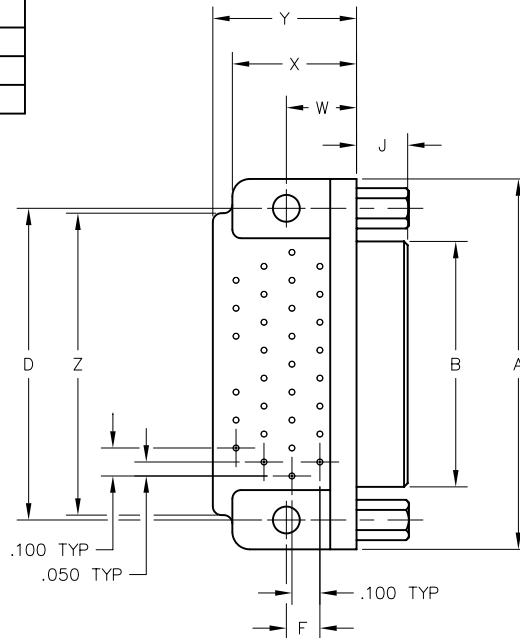
MK-252-031-335-220S  
(PLUG)



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<br>OR<br>#2-56 UNC<br>THREADED<br>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 | .755  | 1.450 |               |                                                   | #4-40 UNC THD | .125 DIA<br>#2-56 UNC INSERT<br>#4-40 UNC INSERT |
| 69         |              | 1.725 | 1.284    | 1.350    |          |          | 1.515 |       |      |      |      |      |       |       |       |               |                                                   |               |                                                  |
| 100        | 4            | 2.160 | 1.384    | 1.508    | .271     | .394     | 1.800 | .200  | .384 |      |      | .400 | .590  | 1.000 | 1.810 |               |                                                   |               |                                                  |