

Series 171 MicroStrips

Single Row Thru-Hole Board Mount Strips

171-004, 171-005, 171-006, and 171-007



Micro-D
Latching
MicroStrips

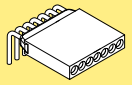
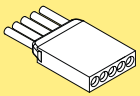
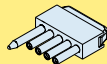
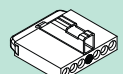
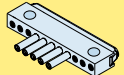
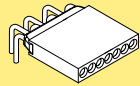
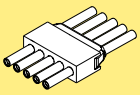
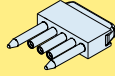
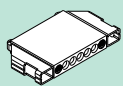
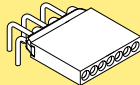
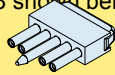
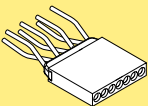


171-006-7P-.125-P1CL

Single Row Board Mount MicroStrips

These .050" pitch single row PCB thru-hole microstrips are available in four types—vertical mount, right angle single row and two right angle staggered versions. Available with 1 to 30 contacts. PC tails are .020" diameter. Optional latching mechanism prevents de-mating. Guide pins provide circuit polarization. Contacts are twistpin type and are gold-plated. Housing is molded LCP thermoplastic. Suitable for high-reliability applications where long-term resistance to fretting corrosion is a necessity. 3 A., 600 Vac, -55C to +150C.

How To Order Single Row Thru-Hole PCB MicroStrips

| Series | Number of Cavities | Contact Type | PC Tail Length (Inches) | Optional Guide Pin | Optional Latch | Optional Mounting Holes |
|--|---|--|---|--|--|---|
| 171-004 Right Angle, Single Row PC Tails  | -1 TO -30 Total Number of Cavities including guide pins, latches and mounting holes. The number of cavities equals the number of electrical circuits plus 1 cavity for each guide pin and latch, plus 6 cavities for the mounting hole option. | P Pin Contacts  | .080 .110 .125 .150 .172 .190 .250 Tail Length In Inches | Omit For No Guide Pin -P1 Guide Pin in Cav. #1  | Omit For No Latch CL Center Latch  | Omit For No Mounting Holes MH Mounting Holes  |
| 171-005 Right Angle, Two Row PC Tails with .050" Between Rows  | The number of cavities equals the number of electrical circuits plus 1 cavity for each guide pin and latch, plus 6 cavities for the mounting hole option. | S Socket Contacts  | Tail Length In Inches | -PB Guide Pin at Both Ends  | BL Latch at Both Ends  | The three cavities on each end are filled with epoxy. Two .062" (1.57mm) holes are cross-drilled to allow for attachment to a mounting surface. |
| 171-006 Right Angle, Two Row PC Tails with .100" Between Rows  | | | | -P(X) Replace (X) with guide pin location. P3 shown below:  | | |
| 171-007 Vertical Mount  | | | | | | |
| Sample Part Number | | | | | | |
| 171-006 | -7 | P | -.125 | -P1 | CL | |



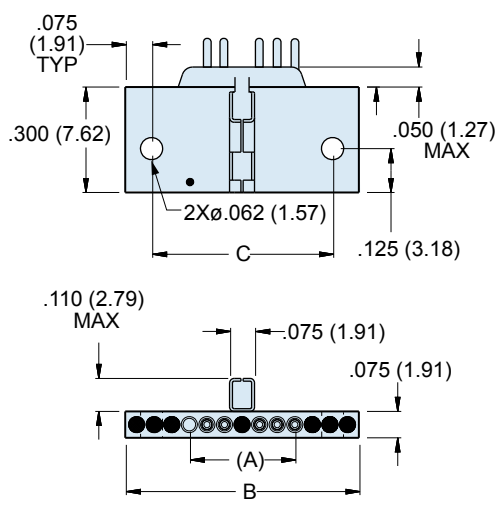


MWS MicroStrips

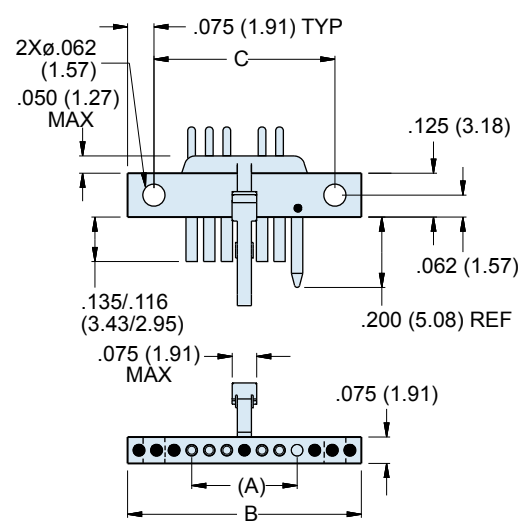
Single Row Thru-Hole Board Mount Strips

171-004, 171-005, 171-006, and 171-007

PIN CONNECTOR



SOCKET CONNECTOR

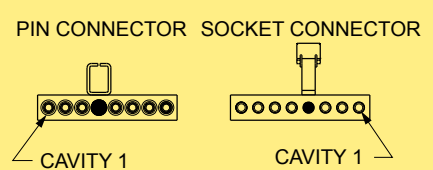


Dimensions

| # of Cavities | (A) | | B Max. | | C | | # of Cavities | (A) | | B Max. | | C | |
|---------------|------|-------|--------|-------|------|-------|---------------|-------|-------|--------|-------|-------|-------|
| | In. | mm. | In. | mm. | In. | mm. | | In. | mm. | In. | mm. | In. | mm. |
| 1 | - | - | .085 | 2.16 | N/A | N/A | 16 | .750 | 19.05 | .835 | 21.21 | .650 | 16.51 |
| 2 | .050 | 1.27 | .135 | 3.43 | N/A | N/A | 17 | .800 | 20.32 | .885 | 22.48 | .700 | 17.78 |
| 3 | .100 | 2.54 | .185 | 4.70 | N/A | N/A | 18 | .850 | 21.59 | .935 | 23.75 | .750 | 19.05 |
| 4 | .150 | 3.81 | .235 | 5.97 | N/A | N/A | 19 | .900 | 22.86 | .985 | 25.02 | .800 | 20.32 |
| 5 | .200 | 5.08 | .285 | 7.24 | N/A | N/A | 20 | .950 | 24.13 | 1.035 | 26.29 | .850 | 21.59 |
| 6 | .250 | 6.35 | .335 | 8.51 | N/A | N/A | 21 | 1.000 | 25.40 | 1.085 | 27.56 | .900 | 22.86 |
| 7 | .300 | 7.62 | .385 | 9.78 | .200 | 5.08 | 22 | 1.050 | 26.67 | 1.135 | 28.83 | .950 | 24.13 |
| 8 | .350 | 8.89 | .435 | 11.05 | .250 | 6.35 | 23 | 1.100 | 27.94 | 1.185 | 30.10 | 1.000 | 25.4 |
| 9 | .400 | 10.16 | .485 | 12.32 | .300 | 7.62 | 24 | 1.150 | 29.21 | 1.235 | 31.37 | 1.050 | 26.67 |
| 10 | .450 | 11.43 | .535 | 13.59 | .350 | 8.89 | 25 | 1.200 | 30.48 | 1.285 | 32.64 | 1.100 | 27.94 |
| 11 | .500 | 12.70 | .585 | 14.86 | .400 | 10.16 | 26 | 1.250 | 31.75 | 1.335 | 33.91 | 1.150 | 29.21 |
| 12 | .550 | 13.97 | .635 | 16.13 | .450 | 11.43 | 27 | 1.300 | 33.02 | 1.385 | 35.18 | 1.200 | 30.48 |
| 13 | .600 | 15.24 | .685 | 17.40 | .500 | 12.7 | 28 | 1.350 | 34.29 | 1.435 | 36.45 | 1.250 | 31.75 |
| 14 | .650 | 16.51 | .735 | 18.67 | .550 | 13.97 | 29 | 1.400 | 35.56 | 1.485 | 37.72 | 1.300 | 33.02 |
| 15 | .700 | 17.78 | .785 | 19.94 | .600 | 15.24 | 30 | 1.450 | 36.83 | 1.535 | 38.99 | 1.350 | 34.29 |

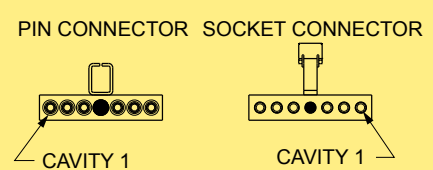
Center Latch Locations

Even Number of Cavities



Latch placed on next lower cavity prior to centerline.
 Latch position = (# of Cavities) ÷ 2.

Odd Number of Cavities



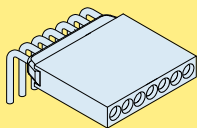
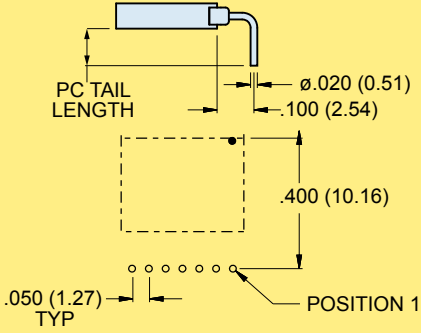
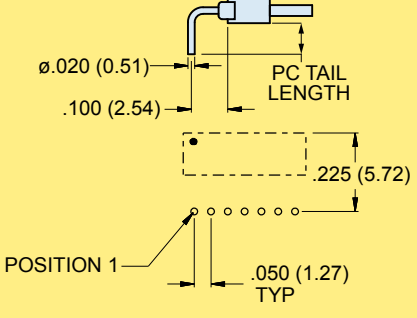
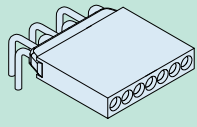
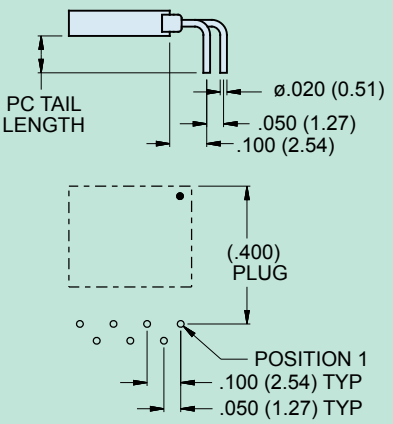
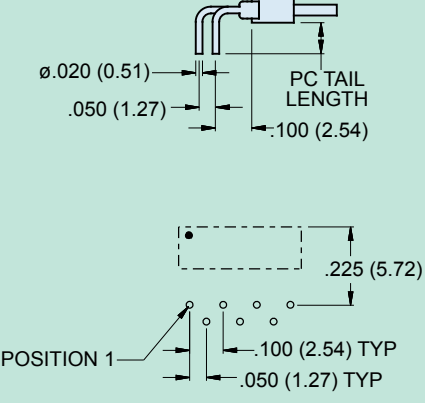
Latch placed in cavity on centerline.
 Latch Position = (# of Cavities+1) ÷ 2.

Series 171 MicroStrips
Single Row Board Mount Strips
PCB layouts: 171-004 and 171-005



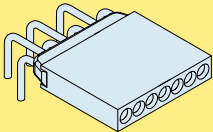
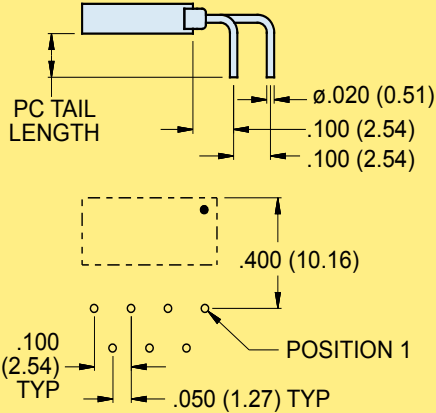
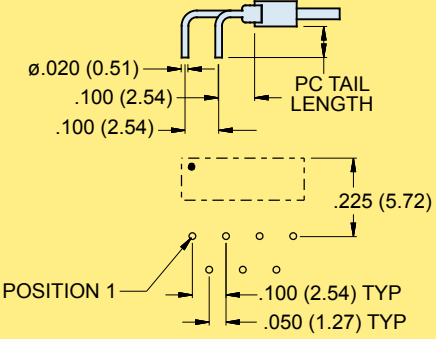
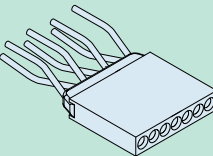
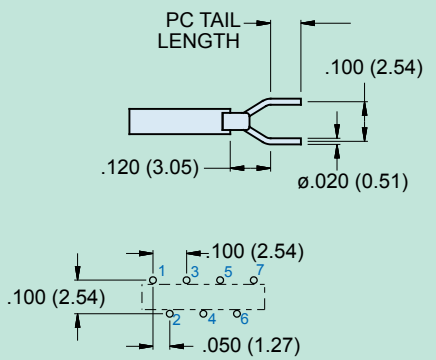
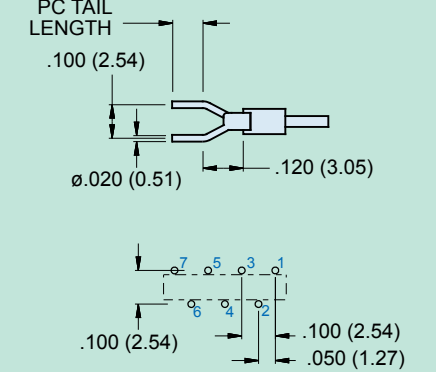
Micro-D
Latching
MicroStrips

PRINTED CIRCUIT BOARD LAYOUTS

| TYPE | PIN CONNECTOR | SOCKET CONNECTOR |
|---|---|---|
| <p>171-004</p>  <p>Right Angle Single Row .050" (1.27) Centers</p> |  <p>PC TAIL LENGTH</p> <p>$\phi .020 (0.51)$</p> <p>.100 (2.54)</p> <p>.400 (10.16)</p> <p>.050 (1.27) TYP</p> <p>POSITION 1</p> |  <p>$\phi .020 (0.51)$</p> <p>.100 (2.54)</p> <p>PC TAIL LENGTH</p> <p>.225 (5.72)</p> <p>POSITION 1</p> <p>.050 (1.27) TYP</p> |
| <p>171-005</p>  <p>Right Angle Staggered .050" (1.27) Offset</p> |  <p>PC TAIL LENGTH</p> <p>$\phi .020 (0.51)$</p> <p>.050 (1.27)</p> <p>.100 (2.54)</p> <p>(.400) PLUG</p> <p>POSITION 1</p> <p>.100 (2.54) TYP</p> <p>.050 (1.27) TYP</p> |  <p>$\phi .020 (0.51)$</p> <p>.050 (1.27)</p> <p>PC TAIL LENGTH</p> <p>.100 (2.54)</p> <p>.225 (5.72)</p> <p>POSITION 1</p> <p>.100 (2.54) TYP</p> <p>.050 (1.27) TYP</p> |



PRINTED CIRCUIT BOARD LAYOUTS

| TYPE | PIN CONNECTOR | SOCKET CONNECTOR |
|---|---|--|
| <p>171-006</p>  <p>Right Angle Staggered .100" (2.54) Offset</p> |  |  |
| <p>171-007</p>  <p>Vertical Mount .100" (2.54) Spacing</p> |  |  |