

3M™ BOARDMOUNT SOCKET, 1502 SERIES
 2.00MM X 2.00MM STRAIGHT AND SURFACE MOUNT, PLATED THROUGH HOLE



STRAIGHT
VERSION



SURFACE MOUNT
VERSION

2 PHYSICAL :

INSULATOR :
 MATERIAL : HIGH TEMP THERMOPLASTIC
 CONTACT :
 MATERIAL : COPPER ALLOY
 PLATING :
 UNDER PLATING : 1.27-3.8µm (50-150µ") NICKEL-OVERALL
 WIPING AREA : .76µm (30µ") GOLD
 SOLDER TAILS : 5.1µm (200µ") MATTE TIN (RIA E1 & C1 APPLY)
 MARKING : ORIENTATION DELTA AND 3M LOGO (EXCEPT SURFACE MOUNT)

2 ELECTRICAL :

CURRENT RATING : 1A
 VOLTAGE RATING : 150V_{AC} PER EIA-364-20
 INSULATION RESISTANCE : >1 X 10⁹ OHM AT 250V_{DC}
 WITHSTANDING VOLTAGE : 500V_{DC} AT SEA LEVEL

2 ENVIRONMENTAL :

TEMPERATURE RATING : -55° C TO 105° C
 PROCESS RATING : MAX. 260° C (PER J-STD-020C)
 MOISTURE SENSITIVITY LEVEL : 1 (PER J-STD-020C)

- NOTES
1. REGULATORY INFORMATION:
 ROHS COMPLIANT. SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "ROHS COMPLIANCE" SECTION OF WWW.3MCONNECTORS.COM FOR COMPLIANCE INFORMATION.
 2. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
 3. TAPE & REEL INCLUDE VACUUM PICK-UP CAP FOR PICK 'N PLACE HANDLING EQUIPMENT.
 4. PARTS IN TRAY PACKAGING ARE SUPPLIED WITHOUT VACUUM CAP.
 5. POSITIONS PER ROW, SUBTRACT 1, MULTIPLY BY 2MM SPACING.
 6. OPTIONAL LOCATOR POSTS: POSITIONS PER ROW, MULTIPLY BY 2MM SPACING, THEN SUBTRACT 4MM. POSTS ARE ONLY AVAILABLE FOR POSITIONS 08 AND GREATER.

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
 INTERCONNECT SOLUTIONS
<http://www.3mconnectors.com>

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UL
 UL FILE NO: E68080

DIMENSIONS: MM (INCH)
 (INCH) FOR REF. ONLY

| | | | | | | |
|------------------------|---------------|---------------------------------|----------------------------|---|------|------|
| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| | | | | SEP 03, 2015 REDRAWN & REMOVED RIGHT ANGLE | | |
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| CASTIGLIONE | SEP 03, 2015 | MATH | SEP 03, 2015 | | | |
| DIVISION | | DIVISION CODE | | 3M Center St. Paul, MN 55144 | | |
| DO NOT SCALE DRAWING | | SCALE | TOLERANCES EXCEPT AS NOTED | INCHES: .0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002 | | |
| THIRD ANGLE PROJECTION | | INTERPRET PER ASME Y14.5 - 2009 | MILLIMETERS | 0 ± .2 .0 ± .13 .000 ± .005 | | |
| MAX SURFACE ROUGHNESS | | SURFACES | | CAGE NUMBER D78-5100-0519-8 | | |
| MARKED ONLY | | ANGLES | | MODEL 1502 | | |
| | | | | REV. | REV. | |
| | | | | K | K | |
| | | | | 1 | 1 | |

78-5100-0519-8
 DRAWING NUMBER
 K
 REVISION
 1
 SHT 1 OF 4
 Standard Time 12/7/2017 UTC Offset

3M™ BOARDMOUNT SOCKET, 1502 SERIES
 2.00MM X 2.00MM STRAIGHT AND SURFACE MOUNT, PLATED THROUGH HOLE



| CONTACT QTY. | DIM. "A" |
|--------------|-----------------|
| 04 | 3.96 [.156] |
| 06 | 5.87 [.231] |
| 08 | 7.87 [.310] |
| 10 | 9.88 [.389] |
| 12 | 11.86 [.467] |
| 14 | 13.87 [.546] |
| 16 | 15.88 [.625] |
| 18 | 17.88 [.704] |
| 20 | 19.86 [.782] |
| 22 | 21.87 [.861] |
| 24 | 23.88 [.940] |
| 26 | 25.88 [1.019] |
| 28 | 27.86 [1.097] |
| 30 | 29.87 [1.176] |
| 32 | 31.88 [1.255] |
| 34 | 33.88 [1.334] |
| 36 | 35.86 [1.412] |
| 38 | 37.87 [1.491] |
| 40 | 39.88 [1.570] |
| 42 | 41.88 [1.649] |
| 44 | 43.87 [1.727] |
| 46 | 45.87 [1.806] |
| 48 | 47.88 [1.885] |
| 50 | 49.89 [1.964] |
| 52 | 51.87 [2.042] |
| 54 | 53.87 [2.121] |
| 56 | 55.88 [2.200] |
| 58 | 57.86 [2.278] |
| 60 | 59.87 [2.357] |

ORDERING INFORMATION
 STRAIGHT
 1502XX-600X-RB

CONTACT QTY.:
 SEE TABLE 1

SOLDER TAIL LENGTH:
 DIMENSION "B"
 1 = 1.4MM (SPECIAL ORDER)
 2 = 2.54MM (STANDARD)

| | | | | | | |
|---|---------------------------------|---|------|--|--|--------------|
| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| | | | | SEP 03, 2015 REDRAWN & REMOVED RIGHT ANGLE | JNC | ARM |
| APPROVED | DATE | DATE | DATE | DATE | DATE | DATE |
| CHKD | CASTIGLIONE | SEP 03, 2015 | MFG | SEP 03, 2015 | APPV | SEP 03, 2015 |
| | | | | | | |
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| DO NOT SCALE DRAWING | SCALE 6/1 | TOLERANCES EXCEPT AS NOTED INCHES: .0 ±.1 .00 ±.01 .000 ±.005 .0000 ±.0002 MILLIMETERS: 0 ±.2 .0 ±.13 .000 ±.005 | | | | |
| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2009 | TITLE BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20 | | | | |
| MAX SURFACE ROUGHNESS | DTX SURFACES | CAGE NUMBER | SIZE | DRAWING NO. | REV. | |
| <input checked="" type="checkbox"/> MARKED ONLY | ANGLES | D78-5100-0519-8 | D | 1502 | K | |
| | | MODEL | 1502 | DET | YES <input type="checkbox"/> NO <input type="checkbox"/> | SHT 2 OF 4 |

78-5100-0519-8
 DRAWING NUMBER
 K
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 Imaged: K.3 Central

3M™ BOARDMOUNT SOCKET, 1502 SERIES
 2.00MM X 2.00MM STRAIGHT AND SURFACE MOUNT, PLATED THROUGH HOLE



RECOMMENDED PAD PATTERN
 (AS VIEWED FROM CONNECTOR SIDE)

| CONTACT QTY. | DIM. "A" | TAPE WIDTH | ORDER CODE |
|--------------|-----------------|------------|------------|
| 04 | 3.96 [.156] | N/A | N/A |
| 06 | 5.87 [.231] | N/A | N/A |
| 08 | 7.87 [.310] | 24 MM | WB |
| 10 | 9.88 [.389] | 24 MM | WB |
| 12 | 11.86 [.467] | 24 MM | WB |
| 14 | 13.87 [.546] | 24 MM | WB |
| 16 | 15.88 [.625] | 24 MM | WB |
| 18 | 17.88 [.704] | 44 MM | WD |
| 20 | 19.86 [.782] | 44 MM | WD |
| 22 | 21.87 [.861] | 44 MM | WD |
| 24 | 23.88 [.940] | 44 MM | WD |
| 26 | 25.88 [1.019] | 44 MM | WD |
| 28 | 27.86 [1.097] | 44 MM | WD |
| 30 | 29.87 [1.176] | 44 MM | WD |
| 32 | 31.88 [1.255] | 56 MM | WE |
| 34 | 33.88 [1.334] | 56 MM | WE |
| 36 | 35.86 [1.412] | 56 MM | WE |
| 38 | 37.87 [1.491] | 56 MM | WE |
| 40 | 39.88 [1.570] | 56 MM | WE |
| 42 | 41.88 [1.649] | 56 MM | WE |
| 44 | 43.87 [1.727] | 72 MM | WF |
| 46 | 45.87 [1.806] | 72 MM | WF |
| 48 | 47.88 [1.885] | 72 MM | WF |
| 50 | 49.89 [1.964] | 72 MM | WF |
| 52 | 51.87 [2.042] | 72 MM | WF |
| 54 | 53.87 [2.121] | 72 MM | WF |
| 56 | 55.88 [2.200] | 72 MM | WF |
| 58 | 57.86 [2.278] | 88 MM | WG |
| 60 | 59.87 [2.357] | 88 MM | WG |

ORDERING INFORMATION
 SURFACE MOUNT
 1502XX-20X0-RB-XX

CONTACT QTY.:
 SEE TABLE 1

BOARD LOCATION POST:
 0 = NONE (STANDARD)
 2 = WITH BOARD LOCATION POSTS
 (SPECIAL ORDER)

PACKAGING STYLE:
 BLANK = TRAY PACKAGING
 WX = TAPE & REEL PACKAGING
 (SEE TABLE 1 FOR ORDERING CODE)

| | | | | | | |
|------------------------|---------------------------------|----------------------------|-----|--|------|--------|
| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| | | | | SEP 03, 2015 | | |
| DIVISION | | DIVISION CODE | | DATE | | |
| EMSD | | EMSD | | SEP 03, 2015 | | |
| DO NOT SCALE DRAWING | SCALE 6/1 | TOLERANCES EXCEPT AS NOTED | | INCHES: .0 ±.1 .00 ±.01 .000 ±.005 .0000 ±.0002 MILLIMETERS: 0 ±.2 .0 ±.13 .000 ±.005 MARKED ONLY | | |
| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2009 | MILLIMETERS | | TITLE BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20 | | |
| MAX SURFACE ROUGHNESS | | CAGE NUMBER | | DRAWING NO. | | REV. |
| .000 ±.005 | | D78-5100-0519-8 | | K | | |
| | | MODEL | | DATE | | REV. |
| | | 1502 | | SEP 03, 2015 | | 3 OF 4 |

78-5100-0519-8
 K
 1502
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 K
 3 OF 4

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|------------------------|--|---------------------------------|--|----------------------------|-----|----------------------------------|--|--------------|------|
| DESIGN REFERENCE | | NEXT ASSEMBLY | | REV | ECO | ISSUE DATE AND DESCRIPTION | | DRFT | CHKD |
| K 63282 | | SEP 03, 2015 | | | | REDRAWN & REMOVED RIGHT ANGLE | | JNC | ARM |
| CAGE NUMBER | | DRAWING NO. | | DATE | | DATE | | DATE | |
| D 78-5100-0519-8 | | K | | SEP 03, 2015 | | SEP 03, 2015 | | SEP 03, 2015 | |
| DIVISION | | DIVISION CODE | | APPRV | | DATE | | DATE | |
| EMSD | | EMSD | | G. MATHEWS | | SEP 03, 2015 | | SEP 03, 2015 | |
| DO NOT SCALE DRAWING | | SCALE 1/1 | | TOLERANCES EXCEPT AS NOTED | | INCHES | | MILLIMETERS | |
| THIRD ANGLE PROJECTION | | INTERPRET PER ASME Y14.5 - 2009 | | MAX SURFACE ROUGHNESS | | MARKED SURFACES | | MARKED ONLY | |
| 0 ± .1 | | .00 ± .01 | | .000 ± .005 | | .0000 ± .0002 | | 0 ± .2 | |
| .00 ± .13 | | .000 ± .005 | | CAGE NUMBER | | DRAWING NO. | | REV. | |
| MODEL 1502 | | D 78-5100-0519-8 | | K | | SHT 4 OF 4 | | | |

78-5100-0519-8 DRAWING NUMBER
 K REVISION
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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.