

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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 INFORMATION CALL 800-225-5373

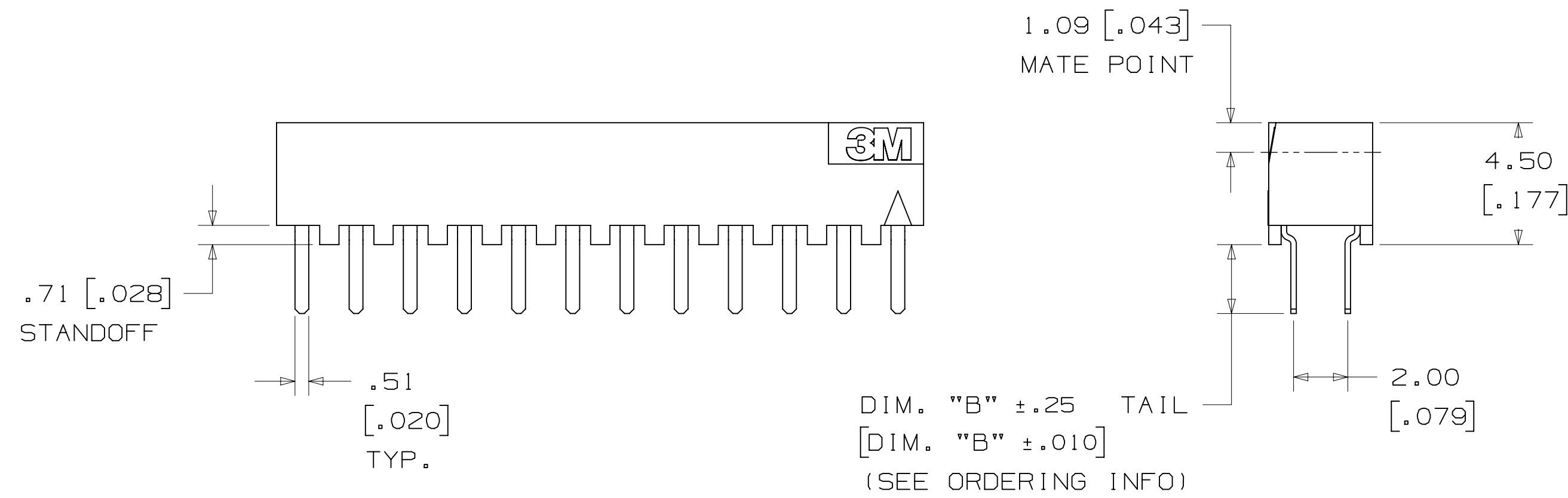
UL
 UL FILE NO: E68080

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		
APPROVED	DATE	APPROVED	DATE	© 3M COPYRIGHT 2017 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.		
APPROVED	DATE	APPROVED	DATE	3M Center St. Paul, MN 55144		
APPROVED	DATE	APPROVED	DATE	TITLE BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20		
APPROVED	DATE	APPROVED	DATE	CAGE NUMBER	SIZE	DRAWING NO.
APPROVED	DATE	APPROVED	DATE	D		78-5100-0519-8
APPROVED	DATE	APPROVED	DATE	MODEL	1502	REV. K
APPROVED	DATE	APPROVED	DATE	DET	LISTS	YES
APPROVED	DATE	APPROVED	DATE	NO	SHT	1 OF 4

78-5100-0519-8
 DRAWING NUMBER
 K
 REVISION
 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		
APPROVED	DATE	DATE	DATE	DATE	DATE	DATE
CASTIGLIONE	SEP 03, 2015					
CHKD	DATE	DATE	DATE	DATE	DATE	DATE
DIVISION	DIVISION CODE	© 3M COPYRIGHT 2017 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.				
DO NOT SCALE DRAWING	SCALE 6/1	TOLERANCES EXCEPT AS NOTED	3M Center St. Paul, MN 55144			
THIRD ANGLE PROJECTION	INCHES: .00 ±.01, .000 ±.0005, .0000 ±.0002	MILLIMETERS: 0 ±.2, .00 ±.13, .000 ±.005	TITLE: BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20			
INTERPRET PER ASME Y14.5 - 2009	MAX SURFACE ROUGHNESS: .13	MARKED SURFACES: [X]	CAGE NUMBER: D78-5100-0519-8	SIZE: 13	DRAWING NO.:	REV.:
			MODEL: 1502	DET: [X] YES [X] NO	SHT 2 OF 4	

78-5100-0519-8
 DRAWING NUMBER
 K
 REVISION
 Standard Time 12/7/2017 UTC Offset
 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		
APPROVED	DATE	APPROVED	DATE	MFG DATE		
	SEP 03, 2015	G. MATHEWS	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 .00 ±.005				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	CAGE NUMBER D78-5100-0519-8 MODEL 1502 DET. [] SHT 3 OF 4				
MAX SURFACE ROUGHNESS	MARKED ONLY	TITLE BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20 REV. K				

78-5100-0519-8
 K
 1502
 12/7/2017 UTC Offset

