

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: HIGH TEMP THERMOPLASTIC  
 MATERIAL: COPPER ALLOY  
 CONTACT: 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<sub>AC</sub> PER EIA-364-20  
 INSULATION RESISTANCE: >1 X 10<sup>9</sup> OHM AT 250V<sub>DC</sub>  
 WITHSTANDING VOLTAGE: 500V<sub>DC</sub> 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** **us**  
 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	MFG DATE		
CASTIGLIONE	SEP 03, 2015	MATHEWS	SEP 03, 2015			
DIVISION		DIVISION CODE		DATE		
		EMSD				
DO NOT SCALE DRAWING	SCALE 6/1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION		INCHES		<small>© 3M COPYRIGHT 2017</small> <small>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.</small>		
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		<b>BOARDMOUNT SOCKET,          2MM X 2MM, STRAIGHT &amp;          SMT, PAC 20</b>		
MAX SURFACE ROUGHNESS		.00 ± .13		CAGE NUMBER		
SURFACES		.000 ± .005		D 78-5100-0519-8		
MARKED ONLY		ANGLES		REV. K		
MODEL 1502				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	JNC	ARM
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	13	78-5100-0519-8
APPROVED	DATE	APPROVED	DATE	MODEL	1502	REV. K
APPROVED	DATE	APPROVED	DATE	DET	YES	NO
APPROVED	DATE	APPROVED	DATE	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		
DIVISION		DIVISION CODE		DATE		
EMSD		EMSD		SEP 03, 2015		
DO NOT SCALE DRAWING	SCALE 6/1	TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144		
THIRD ANGLE PROJECTION		INCHES: .00 ±.01, .000 ±.005, .0000 ±.0002		© 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.		
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS: 0 ±.2, .0 ±.13, .000 ±.005		TITLE: BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20		
MAX SURFACE ROUGHNESS		MARKED ONLY		CAGE NUMBER: D78-5100-0519-8		
				REV. K		
				MODEL: 1502		
				SHT 3 OF 4		

78-5100-0519-8  
 K  
 REV. K  
 DATE: SEP 03, 2015  
 APPR: G. MATHEWS  
 DATE: SEP 03, 2015  
 JNC ARM  
 REDRAWN & REMOVED RIGHT ANGLE  
 3M  
 BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20  
 D78-5100-0519-8  
 K  
 SHT 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		APPR		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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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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