

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<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		
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD		
		SEP 03, 2015				
DIVISION	DIVISION CODE	DATE	DATE	DATE		
	EMSD	SEP 03, 2015		SEP 03, 2015		
DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED				
	6/1	INCHES	© 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.			
THIRD ANGLE PROJECTION		MILLIMETERS	TITLE <b>BOARDMOUNT SOCKET,          2MM X 2MM, STRAIGHT &amp;          SMT, PAC 20</b>			
INTERPRET PER ASME Y14.5 - 2009		0 ± .2	CAGE NUMBER <b>D78-5100-0519-8</b>			
MAX SURFACE ROUGHNESS		.00 ± .13	DRAWING NO. <b>78-5100-0519-8</b>			
MARKED ONLY		.000 ± .005	REV. <b>K</b>			
		ANGLES	MODEL <b>1502</b>			
			DET. YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> 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	JNC	ARM
DIVISION CODE EMSD				DATE SEP 03, 2015		
DO NOT SCALE DRAWING				TOLERANCES EXCEPT AS NOTED		
THIRD ANGLE PROJECTION				INCHES .00 ±.01 .000 ±.005 .0000 ±.0002		
INTERPRET PER ASME Y14.5 - 2009				MILLIMETERS 0 ±.2 .00 ±.13 .000 ±.005		
MAX SURFACE ROUGHNESS SURFACES				MODEL 1502		
MARKED ONLY				TITLE BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20		
CAGE NUMBER D78-5100-0519-8				REV. K		
DET. 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		
DIVISION		DIVISION CODE		DATE		
EMSD		EMSD		SEP 03, 2015		
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INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS: 0 ±.2, .00 ±.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  
 REVISION  
 DRAWING NUMBER  
 1502  
 TIME: 12/7/2017 UTC  
 OFFSET  
 K  
 REV.

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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
DPT CASTIGLIONE		DATE SEP 03, 2015		MFG DATE					
CHKD		DATE		APPRV G. MATHEWS		DATE SEP 03, 2015			
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 1/1		TOLERANCES EXCEPT AS NOTED					
THIRD ANGLE PROJECTION		INCHES 0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002		MILLIMETERS 0 ± .2 .0 ± .13 .000 ± .005		TITLE <b>BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT &amp; SMT, PAC 20</b>			
INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS		CAGE NUMBER		DRAWING NO.		REV.	
<input checked="" type="checkbox"/> MARKED ONLY <input type="checkbox"/> UNMARKED ONLY		<input checked="" type="checkbox"/> SURFACES <input type="checkbox"/> ANGLES		<b>D 78-5100-0519-8</b>		<b>1502</b>		<b>K</b>	
				MODEL		DET		SHT 4 OF 4	

78-5100-0519-8  
 DRAWING NUMBER  
 K  
 REVISION  
 12/7/2017  
 Standard Time  
 Central  
 K.3  
 Imaged:



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- Поставка более 17-ти миллионов наименований электронных компонентов;
- 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

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