

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.		
CASTIGLIONE	SEP 03, 2015	MATHUEWS	SEP 03, 2015			
DIVISION		DIVISION CODE		3M Center St. Paul, MN 55144		
DO NOT SCALE DRAWING		SCALE	TOLERANCES EXCEPT AS NOTED	TITLE BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20		
		6 1	INCHES: .0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002	CAGE NUMBER D 78-5100-0519-8 K		
THIRD ANGLE PROJECTION		MILLIMETERS 0 ± .2 .0 ± .13 .000 ± .005		MODEL 1502		
INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS		DET. YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> SHT 1 OF 4		
		SURFACES				
		MARKED ONLY				

78-5100-0519-8
 DRAWING NUMBER
 K
 REVISION
 12/7/2017
 Standard Time
 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
CASTIGLIONE	SEP 03, 2015	MFG				
CHKD	DATE	DATE	DATE	DATE	DATE	DATE
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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	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 ONLY	CAGE NUMBER	SIZE	DRAWING NO.	REV.
			D78-5100-0519-8	D	1502	K
			MODEL	1502	DET	SHT 2 OF 4

78-5100-0519-8
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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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THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS		TITLE		
		0 ±.2		BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20		
MAX SURFACE ROUGHNESS	MARKED ONLY	MILLIMETERS		CAGE NUMBER		
		.00 ±.13		D78-5100-0519-8		
		.000 ±.005		MODEL		
		.000 ±.005		1502		
		.000 ±.005		REV. K		
		.000 ±.005		SHT 3 OF 4		

78-5100-0519-8
 K
 REV. K
 DATE SEP 03, 2015
 APPR. G. MATHEWS
 DATE SEP 03, 2015
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 St. Paul, MN 55144
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 BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20
 CAGE NUMBER D78-5100-0519-8
 MODEL 1502
 REV. 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
DRAWING NUMBER		DATE		DRFT	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
78-5100-0519-8		SEP 03, 2015		CASTIGLIONE					
DIVISION		DIVISION CODE		CHKD	DATE	APPR	DATE		
EMSD		EMSD			SEP 03, 2015	G. MATHEWS	SEP 03, 2015		
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THIRD ANGLE PROJECTION		INCHES		MILLIMETERS		TITLE BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20			
INTERPRET PER ASME Y14.5 - 2009		.0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002		0 ± 2 0 ± 3 .00 ± .13 .000 ± .005		CAGE NUMBER		DRAWING NO.	
MAX SURFACE ROUGHNESS		.00 ± .13 .000 ± .005		1502		D 78-5100-0519-8		REV. K	
MARKED ONLY		ANGLES		MODEL		DET		SHT 4 OF 4	

78-5100-0519-8 DRAWING NUMBER
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 Standard Time 12/7/2017 UTC Offset

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