

3M™ LATCH/EJECT HEADER, 1552 SERIES
2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT



5 1552XX-X20X
LATCH MATING FOR
MOLDED-ON SOCKET
WITH LATCHING EAR



5 1552XX-X30X
LATCH MATING FOR
PRESS-ON SOCKET



5 1552XX-X40X
LATCH MATING FOR
2MM SCI CARRIER

3 ELECTRICAL PERFORMANCE:

CURRENT RATING: 4.75A, 1 LINE POWERED
2.00A, 6 ADJACENT LINES POWERED
1.25A, ALL LINES POWERED

RATING CONDITIONS: EIA-364-070 METHOD 2, 30°C MAXIMUM TEMPERATURE
RISE, 20% DERATED. REFERENCE APPROPRIATE 3M PRODUCT
SPECIFICATION FOR DETAILED CURRENT DERATING CURVES.

INSULATION RESISTANCE: > 1X10⁹ OHMS AT 500 V_{DC}
WITHSTANDING VOLTAGE (1552XX): 1000 V_{RMS} AT SEA LEVEL
WITHSTANDING VOLTAGE (G1552XX): 750 V_{RMS} AT SEA LEVEL

3 ENVIRONMENTAL:

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

- * 14 PIN COUNTS RANGING FROM 06 TO 50 POSITIONS.
- * LATCH/EJECT MECHANISM SECURELY LATCHES TO SOCKET.
- * ROLL PINS RETAIN LATCHES TO BODY IN SHIPPING AND HIGH VIBRATION ENVIRONMENTS.
- * EJECTOR HELPS MAKE UNMATING OF CABLE ASSEMBLIES EASIER.
- * HIGH TEMPERATURE INSULATORS SUITABLE FOR LEAD FREE PROCESSING.
- * ROBUST SYSTEM SOLUTION WHEN USED WITH 3M IDC WIREMOUNT SOCKETS OR 3M MOLDED CABLE ASSEMBLIES.
- * SMT LATCH/EJECT HEADERS ARE AVAILABLE IN TAPE AND REEL WITH VACUUM CAP FOR AUTOMATIC PLACEMENT.

- NOTES
1. MATERIAL:
PLASTIC:
GLASS FILLED POLYESTER (LCP)
UL94V-0, BLACK
CONTACT: COPPER ALLOY.
 2. PLATING:
50μ NICKEL UNDERPLATING
WIPE AREA: SEE ORDERING INFO.
SOLDER TAIL: 200μ MATTE TIN.
 3. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
 4. REGULATORY INFORMATION:
VISIT 3M.com/regs OR CONTACT YOUR 3M REPRESENTATIVE TO FIND THE RoHS COMPLIANCE STATUS OF THE 3M PART YOU ARE INTERESTED IN.
 5. SEE TABLE 1 FOR LATCH AVAILABILITY.
 6. MATING COMPATIBILITY SERIES:
1522, 870, 2M AND 2MM SCI CARRIER (93XX).
 7. SURFACE MOUNT VERSION: ORDER CODE APPLIES TO THE TAPE AND REEL WIDTH.

TABLE 1

CONTACT QTY.	DIM. "A"	DIM. "B"	DIM. "D"	LATCH OPTION	TAPE WIDTH	ORDER CODE	CONTACT QTY.
06	.673 [17.09]	.157 [4.00]	.333 [8.45]	2, 4	44 MM	WD	06
08	.752 [19.10]	.236 [6.00]	.411 [10.44]	2, 4	44 MM	WD	08
10	.831 [21.10]	.315 [8.00]	.490 [12.45]	2, 3, 4	44 MM	WD	10
12	.910 [23.10]	.394 [10.00]	.569 [14.45]	3, 4	44 MM	WD	12
16	1.067 [27.10]	.551 [14.00]	.726 [18.44]	2, 4	56 MM	WE	16
20	1.224 [31.09]	.709 [18.00]	.884 [22.45]	2, 3, 4	56 MM	WE	20
22	1.303 [33.10]	.787 [20.00]	.963 [24.46]	2, 4	56 MM	WE	22
24	1.382 [35.10]	.866 [22.00]	1.041 [26.44]	2, 4	56 MM	WE	24
26	1.461 [37.10]	.945 [24.00]	1.120 [28.45]	2, 3, 4	72 MM	WF	26
30	1.618 [41.10]	1.102 [28.00]	1.278 [32.46]	2, 4	72 MM	WF	30
34	1.774 [45.09]	1.260 [32.00]	1.435 [36.46]	2, 4	72 MM	WF	34
40	2.012 [51.10]	1.496 [38.00]	1.671 [42.44]	2, 3, 4	72 MM	WF	40
44	2.169 [55.09]	1.654 [42.00]	1.829 [46.46]	2, 3, 4	88 MM	WG	44
50	2.405 [61.09]	1.980 [48.00]	2.065 [54.45]	2, 3, 4	88 MM	WG	50



TYPICAL CONNECTOR DIMENSIONS FOR THE HEADERS ON THIS DRAWING (EXCEPT AS NOTED)

DIMENSIONS: MM [INCHES]

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

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DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DIVISION	DIVISION CODE	DATE	DATE	DATE	DATE	DATE
	EMSD	JAN 21, 2015	JAN 21, 2015	JAN 21, 2015	JAN 21, 2015	JAN 21, 2015
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED		INCHES .00 ± .01 .000 ± .008 .0000 ± MILLIMETERS 0 ± .3 .00 ± .20 .000 ±		
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MAX SURFACE ROUGHNESS SURFACES MARKED ONLY		© 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.		
TITLE		CAGE NUMBER		DRAWING NO.		REV.
LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT		D 78-5100-2199-7		L		L
MODEL		1552		SHT 1 OF 4		

78-5100-2199-7
DRAWING NUMBER
Imaged: L.6 Central Time 5/17/2017 UTC Offset

3M™ LATCH/EJECT HEADER, 1552 SERIES
2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT

STRAIGHT VERSION



ORDERING INFORMATION
1552XX-6X0X-XX

CONTACT QUANTITY: 2 3 4

LATCHING OPTIONS:
2 = LATCH, MOLDED-ON SOCKET WITH LATCHING EARS, SERIES: 870, 2MM
3 = LATCH, PRESS-ON SOCKET, SERIES: 1522
4 = LATCH, 2MM SCI CARRIER ONLY, SERIES: 93XX

PLATING OPTIONS:
RB = 30µIN [.76µm] GOLD
RA = 10µIN [.25µm] GOLD (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

SOLDER TAIL LENGTH:
DIMENSION "E"
2 = .112 [2.84]
3 = .155 [3.94]

STRAIGHT VERSION WITH INTERSTITIAL GROUNDS



ORDERING INFORMATION
G1552XX-6X0X-XX

CONTACT QUANTITY: 2 3 4

LATCHING OPTIONS:
4 = LATCH, 2MM SCI CARRIER ONLY, SERIES 93XX

PLATING OPTIONS:
RB = 30µIN [.76µm] GOLD
RA = 10µIN [.25µm] GOLD (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

SOLDER TAIL LENGTH:
DIMENSION "E"
2 = .112 [2.84]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DATE	DATE	DATE	DATE	DATE	DATE	DATE
CHKD	DATE	APPV	DATE	DATE	DATE	DATE
DIVISION	DIVISION CODE					
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED INCHES .0 ±.01 .000 ±.008 .0000 ±.0000 MILLIMETERS 0 ±.3 .00 ±.20 .000 ±.000				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT				
MAX SURFACE ROUGHNESS	DT SURFACES	CAGE NUMBER	SIZE	DRAWING NO.	REV.	
MARKED ONLY	ANGLES	D		78-5100-2199-7	L	
		MODEL		1552	DET	ISTS YES NO SHT 2 OF 4

78-5100-2199-7
DRAWING NUMBER
REV. 1
Standard Time5/17/2017UTC Offset

3M™ LATCH/EJECT HEADER, 1552 SERIES
2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT

RIGHT ANGLE VERSION



RECOMMENDED PC BOARD PATTERN
(VIEWED FROM CONNECTOR SIDE)

ORDERING INFORMATION

1552XX-5X0X-XX

CONTACT QUANTITY: []

- LATCHING OPTIONS:
- 2 = LATCH, MOLDED-ON SOCKET WITH LATCHING EARS, SERIES: 870, 2MM
 - 3 = LATCH, PRESS-ON SOCKET, SERIES: 1522
 - 4 = LATCH, 2MM SCI CARRIER ONLY, SERIES 93XX

- PLATING OPTIONS:
- RB = 30µIN [.76µm] GOLD
 - RA = 10µIN [.25µm] GOLD (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

- SOLDER TAIL LENGTH:
DIMENSION "E"
- 2 = .112 [2.84]
 - 3 = .155 [3.94]

SURFACE MOUNT VERSION

NOTES:

- 1) TAPE & REEL PARTS ALWAYS SUPPLIED WITH VACUUM PICK-UP CAP.
- 2) TAPE & REEL NOT AVAILABLE WITH SCI LATCH OPTION.
- 3) TRAY PARTS SUPPLIED WITHOUT VACUUM PICK-UP CAP.



RECOMMENDED PC BOARD PATTERN
(VIEWED FROM CONNECTOR SIDE)

ORDERING INFORMATION

1552XX-2X00-XX-XX

CONTACT QUANTITY: []

- LATCHING OPTIONS:
- 2 = LATCH, MOLDED-ON SOCKET WITH LATCHING EARS, SERIES: 870, 2MM
 - 3 = LATCH, PRESS-ON SOCKET, SERIES: 1522
 - 4 = LATCH, 2MM SCI CARRIER ONLY, SERIES 93XX

- PACKAGING:
BLANK = TRAYS
WX = TAPE & REEL
(SEE TABLE 1 ORDER CODE)

- PLATING OPTIONS:
- RB = 30µIN [.76µm] GOLD
 - RA = 10µIN [.25µm] GOLD (RIA E1 & C1 APPLY) FOR BOTH PLATINGS

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
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CHKD	DATE	APPV	DATE			
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THIRD ANGLE PROJECTION		MILLIMETERS 0 ±.3 .00 ±.20 .000 ±				
INTERPRET PER ASME Y14.5 - 2009		CAGE NUMBER D78-5100-2199-7 L MODEL 1552 DET. [] SHT 3 OF 4				
MAX SURFACE ROUGHNESS		SURFACES [] MARKED ONLY				

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3M™ LATCH/EJECT HEADER, 1552 SERIES
 2MM X 2MM STRAIGHT & RIGHT ANGLE, THROUGH-HOLE, STRAIGHT & SURFACE MOUNT

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MAX SURFACE ROUGHNESS	MARKED SURFACES	INCHES		CAGE NUMBER D 78-5100-2199-7 L MODEL 1552 DET. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 4 OF 4		
		.00 ± .01 .000 ± .008 .0000 ±				
		0 ± .3 .00 ± .20 .000 ±				
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78-5100-2199-7 DRAWING NUMBER
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