

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:

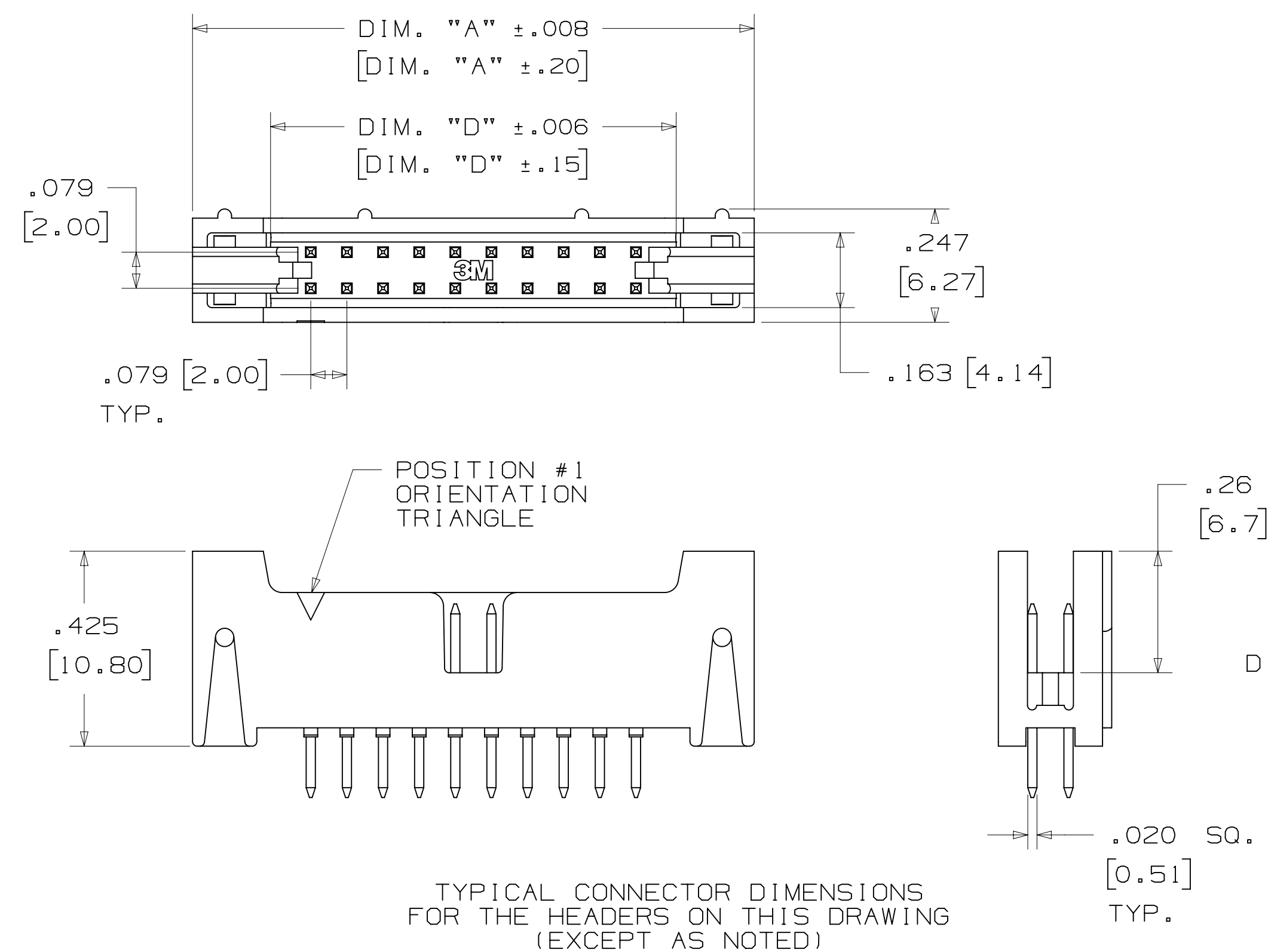
TEMPERATURE RATING: -55°C TO +105°C
 PROCESS RATING: MAXIMUM 260°C (PER J-STD-020)
 MOISTURE SENSITIVITY LEVEL: 1 (PER J-STD-020)

- * 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.

7

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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 INFORMATION CALL 800-225-5373

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 ±		
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS		0 .0 ± .3 .00 ± .20 .000 ±		
MAX SURFACE ROUGHNESS	MARKED ONLY	CAGE NUMBER	SIZE	DRAWING NO.	REV.	
		D		78-5100-2199-7	L	
		MODEL	1552	DET	1	1 OF 4

L 58601 AUG 11, 2016
 8-11-16 ADD SHT 4
 REVISE TRADEMAKE NOTE
 JUN 01, 2016
 PRODUCTION RELEASE,
 APR 29, 2016

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78-5100-2199-7
 DRAWING NUMBER
 1552
 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
APPROVED		CASTIGLIONE		JAN 21, 2015		
CHKD				JAN 21, 2015		
DIVISION	DIVISION CODE	APPRV R. SCHERER				
	EMSD	DATE JAN 21, 2015				
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED				
		INCHES				
		.00 ±.01				
		.000 ±.008				
		.0000 ±				
THIRD ANGLE PROJECTION		MILLIMETERS				
		0 ±				
		.0 ±.3				
		.00 ±.20				
		.000 ±				
MAX SURFACE ROUGHNESS		ANGLES				
DT SURFACES						
MARKED ONLY						
CAGE NUMBER		SIZE	DRAWING NO.	REV.		
D			78-5100-2199-7	L		
MODEL		1552	DET	ISTS	YES	NO
			SHT	2	OF 4	

78-5100-2199-7
DRAWING NUMBER
Revision
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
DRW CODES		CASTIGLIONE		JAN 21, 2015		
DIVISION	DIVISION CODE	DATE	DATE	DATE	DATE	DATE
	EMSD					
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	4/1	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.		
		MILLIMETERS		TITLE LATCH/EJECT HEADER, 2MM, STRAIGHT, RIGHT ANGLE & SMT		
THIRD ANGLE PROJECTION		0 ± .3		CAGE NUMBER D78-5100-2199-7 L		
INTERPRET PER ASME Y14.5 - 2009		.00 ± .20		DRAWING NO. 78-5100-2199-7 L		
MAX SURFACE ROUGHNESS		.000 ±		MODEL 1552		
MARKED ONLY		ANGLES		DET. YES X NO SHT 3 OF 4		

78-5100-2199-7 DRAWING NUMBER
Standard Time 5/17/2017 UTC OffSet

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

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DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				AUG 11, 2016	JNC	RS
				8-11-16 ADD SHT 4		
				REVISE TRADEMAKE NOTE		
				JUN 01, 2016		
				PRODUCTION RELEASE,		
				APR 29, 2016		
NAME	DATE	DATE	DATE	DATE	DATE	DATE
CASTIGLIONE	JAN 21, 2015	MFG				
CHKD	DATE	APPRV	DATE	DATE	DATE	DATE
		R. SCHERER	JAN 21, 2015			
DIVISION	DIVISION CODE	 3M Center St. Paul, MN 55144				
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THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED	INCHES .0 ± .01 .000 ± .008 .0000 ±				
INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS	0 ± .0 ± .3 .00 ± .20 .000 ±				
MAX SURFACE ROUGHNESS	MARKED SURFACES	CAGE NUMBER	SIZE	DRAWING NO.	REV.	
✓	✓	D		78-5100-2199-7	L	
✓	✓	MODEL	1552	DET	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	SHT 4 OF 4

78-5100-2199-7
 DRAWING NUMBER
 1552
 Standard Time5/17/2017UTC Offrset

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