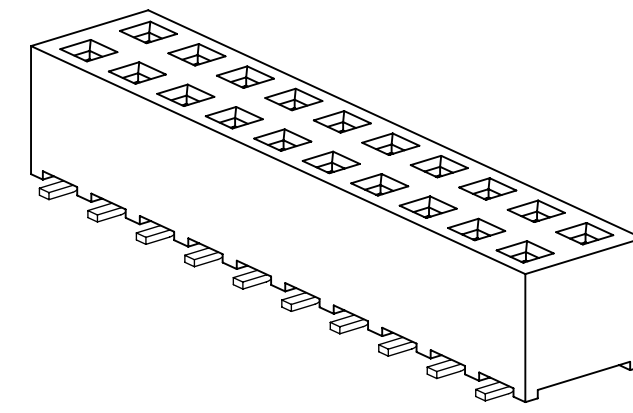


3M™ THROUGH-BOARD SOCKET, 96X SERIES  
2.54MM X 2.54MM, LOW PROFILE SURFACE MOUNT



DUAL ROW, LOW PROFILE  
SURFACE MOUNT VERSION  
4.57MM TALL BODY  
"9662XX"

- NOTES
- MATERIAL:  
PLASTIC: HIGH TEMP LCP, UL94V-0  
CONTACT: COPPER ALLOY.
  - REGULATORY INFORMATION:  
ROHS COMPLIANT. SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "ROHS COMPLIANCE" SECTION OF WWW.3MCONNECTORS.COM FOR COMPLIANCE INFORMATION (RIA E1 & C1 APPLY).
  - IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
  - N = THE NUMBER OF CONTACTS.

**3** PHYSICAL :

INSULATOR: HIGH TEMP THERMOPLASTIC  
MATERIAL: HIGH TEMP THERMOPLASTIC  
FLAMMABILITY: UL94V-0  
COLOR: BLACK  
CONTACT: COPPER ALLOY  
MATERIAL: COPPER ALLOY  
PLATING: NICKEL-OVERALL  
UNDER PLATING: 1.27-2.54µm [ 50-100µ" ]  
WIPING AREA: GOLD FLASH  
SOLDER TAILS: 1-3µm [ 40-118µ" ] MATTE TIN

**3** ELECTRICAL :

CURRENT RATING: 3A  
INSULATION RESISTANCE: >5 X 10<sup>8</sup> OHm AT 100V<sub>DC</sub>  
WITHSTANDING VOLTAGE: 1000V<sub>AC</sub> AT 60s

**3** MECHANICAL :

INSERTION FORCE: ≤ 3N PER PIN  
EXTRACTION FORCE: ≥ 0.3N PER PIN  
RETENTION FORCE: ≥ 7N PER PIN

**3** ENVIRONMENTAL :

TEMPERATURE RATING: -55°C TO 125°C  
PROCESSING TEMPERATURE: MAX. 260°C (PROFILE PER J-STD-020C)  
MOISTURE SENSITIVITY LEVEL: 1 (PER J-STD-020C)

**3** PACKING & STORING :

METHOD OF PACKING: TAPE AND REEL, OUTER BOX  
STORING CONDITION: TEMPERATURE OF -10°C TO 40°C  
BELOW 80% RELATIVE HUMIDITY

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

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INFORMATION CALL 800-225-5373

DIMENSIONS: MM [ INCH ]

MM [ INCH ]		
TOLERANCE - UNLESS NOTED		
	X.	.X
MM	±.5	±.20
[ INCH ]	±.02	±.008
[ ] = DIM. FOR REFERENCE ONLY		

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD																				
CODES				CASTIGLIONE	JAN 12, 2015	MFG																				
DIVISION	DIVISION CODE	CHKD	DATE	APPRV	DATE																					
	EMSD		JAN 12, 2015	T. SUNIGA	JAN 12, 2015																					
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED																								
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	<table border="1"> <tr> <th>TOLERANCES EXCEPT AS NOTED</th> <th>TOLERANCES EXCEPT AS NOTED</th> </tr> <tr> <td>INCHES</td> <td>MILLIMETERS</td> </tr> <tr> <td>.00</td> <td>0</td> </tr> <tr> <td>.000 ±</td> <td>0 ±</td> </tr> <tr> <td>.0000 ±</td> <td>0 ±</td> </tr> <tr> <td>0 ±</td> <td>0 ±</td> </tr> <tr> <td>.00 ±</td> <td>0 ±</td> </tr> <tr> <td>.000 ±</td> <td>0 ±</td> </tr> <tr> <td>.000 ±</td> <td>0 ±</td> </tr> <tr> <td>0 ±</td> <td>0 ±</td> </tr> </table>		TOLERANCES EXCEPT AS NOTED	TOLERANCES EXCEPT AS NOTED	INCHES	MILLIMETERS	.00	0	.000 ±	0 ±	.0000 ±	0 ±	0 ±	0 ±	.00 ±	0 ±	.000 ±	0 ±	.000 ±	0 ±	0 ±	0 ±	© 3M COPYR[IGHT] 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.		
TOLERANCES EXCEPT AS NOTED	TOLERANCES EXCEPT AS NOTED																									
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MAX SURFACE ROUGHNESS	DT SURFACES	<table border="1"> <tr> <th>CAGE NUMBER</th> <th>SIZE</th> <th>DRAWING NO.</th> <th>REV.</th> </tr> <tr> <td>D</td> <td>96XX</td> <td>78-5100-2652-5</td> <td>A</td> </tr> </table>		CAGE NUMBER	SIZE	DRAWING NO.	REV.	D	96XX	78-5100-2652-5	A	TITLE THRU-BOARD SKT, 2.54MM X 2.54MM, SURFACE MOUNT														
CAGE NUMBER	SIZE	DRAWING NO.	REV.																							
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MARKED ONLY	ANGLES	MODEL 96XX		IDET [ ] YES [X] NO [ ] SHT 1 OF 3																						

REVISION A  
 DRAWING NUMBER 78-5100-2652-5  
 DATE 3/6/2017 2:46 PM UTC-06:00

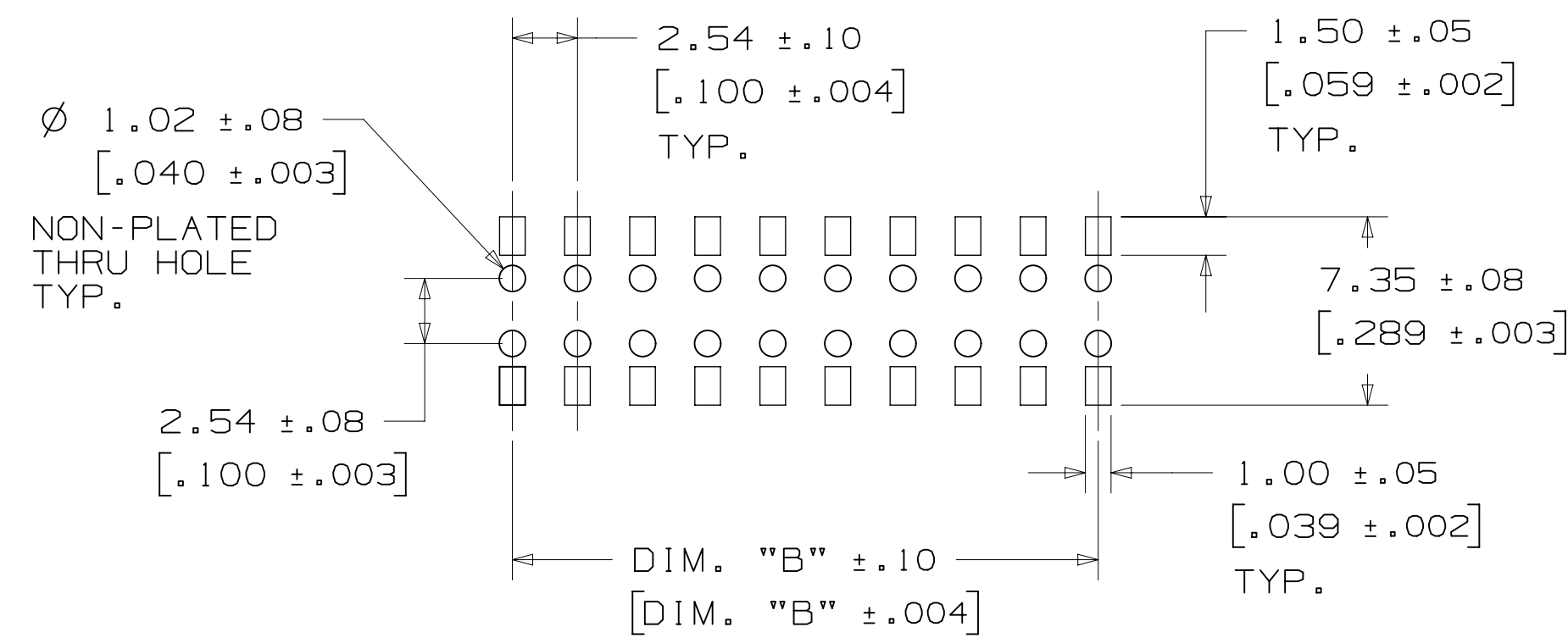
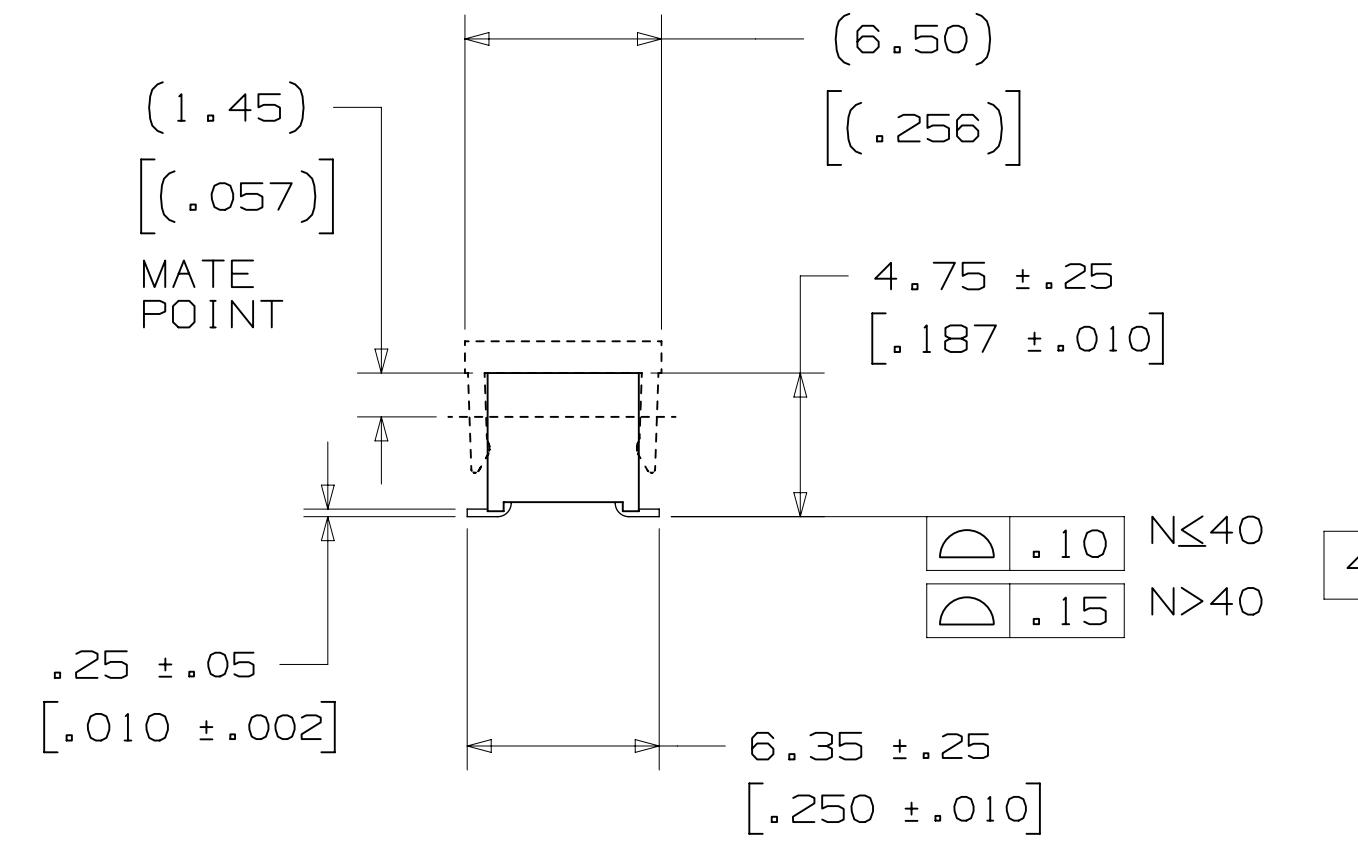
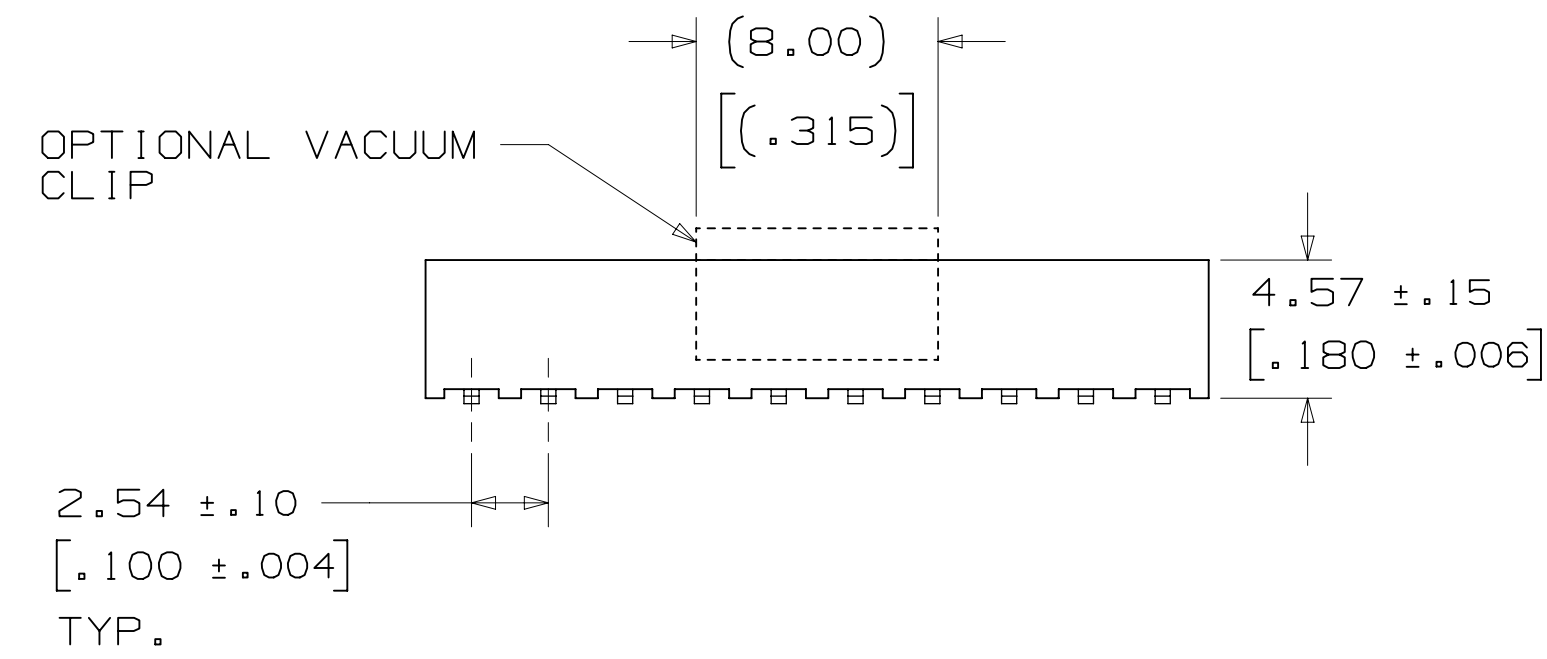
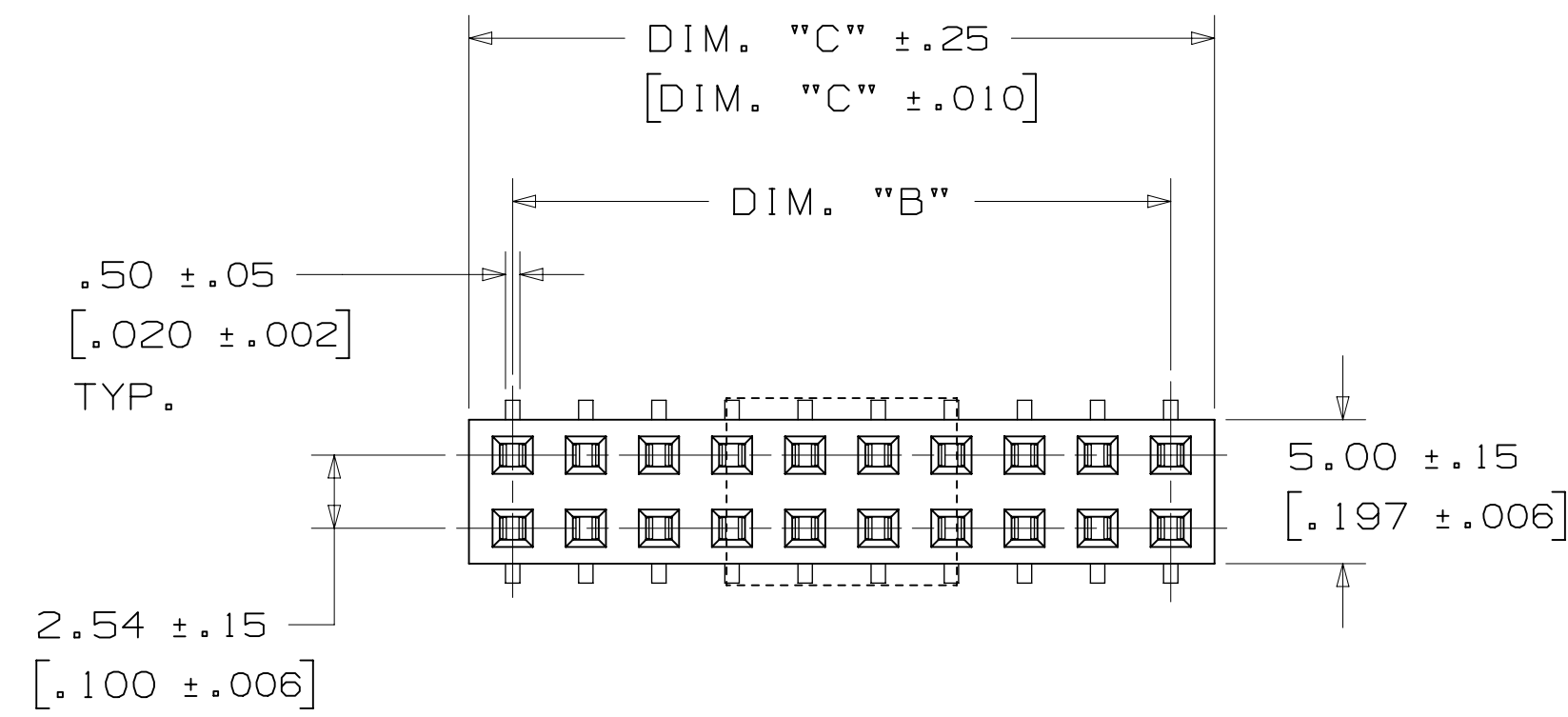
3M™ THROUGH-BOARD SOCKET, 96X SERIES  
2.54MM X 2.54MM, LOW PROFILE SURFACE MOUNT

ORDERING INFORMATION  
9662XX-2000-AR-XX

CONTACT QUANTITY:  
04-60

PACKAGING:  
TP = TUBE WITHOUT CLIP (04 TO 60 POS)  
PT = TUBE WITH CLIP (10 TO 60 POS)  
PR = TAPE AND REEL WITH CLIP (10 TO 60 POS)

PLATING:  
AR = 1.27µM [50µIN] MIN. NICKEL ALL OVER  
WIPING AREA: GOLD FLASH  
SOLDER TAIL AREA: 1-3µM [40-118µIN] MIN. MATTE TIN



RECOMMENDED PC BOARD LAYOUT  
(VIEWED FROM COMPONENT SIDE)

TABLE 1	
DIM. "A"	2.54 [ .100 ] X (N/2)
DIM. "B"	2.54 [ .100 ] X (N/2-1)
DIM. "C"	2.54 [ .100 ] X (N/2) +.50
SEE NOTE 3	

TABLE 2							
CONTACT QTY.	10	12-16	18-24	26-34	36-44	46-56	58-60
TAPE WIDTH [MM]	24	32	44	56	72	88	104

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				A 72044 MAR 06, 2017	JNC	TS
REVISION ELECTRIC, MECHANICAL & ENVIRONMENTAL NOTES 2-2-17 REMOVED 4 CONNECTOR PRODUCTION RELEASE						
DIVISION CODES DIVISION DO NOT SCALE DRAWING THIRD ANGLE PROJECTION MAX SURFACE ROUGHNESS INTERPRET PER ASME Y14.5 - 2009 MARKED SURFACES MARKED ONLY		SCALE 4 1 TOLERANCES EXCEPT AS NOTED INCHES .00 ± .000 ± .0000 ± MILLIMETERS 0 ± .00 ± .000 ± .000 ±		3M Center St. Paul, MN 55144 © 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 THRU-BOARD SKT, 2.54MM X 2.54MM, SURFACE MOUNT		CAGE NUMBER D 78-5100-2652-5 MODEL 96xx		DATE JAN 12, 2015 DATE JAN 12, 2015 DATE JAN 12, 2015		
INTERPRET PER ASME Y14.5 - 2009		CAGE NUMBER D 78-5100-2652-5 MODEL 96xx		REV. A		
MARKED ONLY		MODEL 96xx		SHEET SHT 2 OF 3		


78-5100-2652-5  
 DRAWING NUMBER  
 A.7 3/6/2017 2:46 PM UTC-06:00  
 REVISION

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A 72044						MAR 06, 2017		JNC	TS
				OFF		DATE		MFG	
				CASTIGLIONE		JAN 12, 2015			
				CHKD		DATE		APPRV	
								T. SUNIGA	
								DATE	
								JAN 12, 2015	
DIVISION		DIVISION CODE		 3M Center St. Paul, MN 55144 © 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.					
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THIRD ANGLE PROJECTION		INCHES		.00 ± .000 ± .0000 ±					
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		0 ± .0 ± .00 ± .00 ± .00 ±					
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				MODEL		96XX		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 3 OF 3	

78-5100-2652-5 DRAWING NUMBER  
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