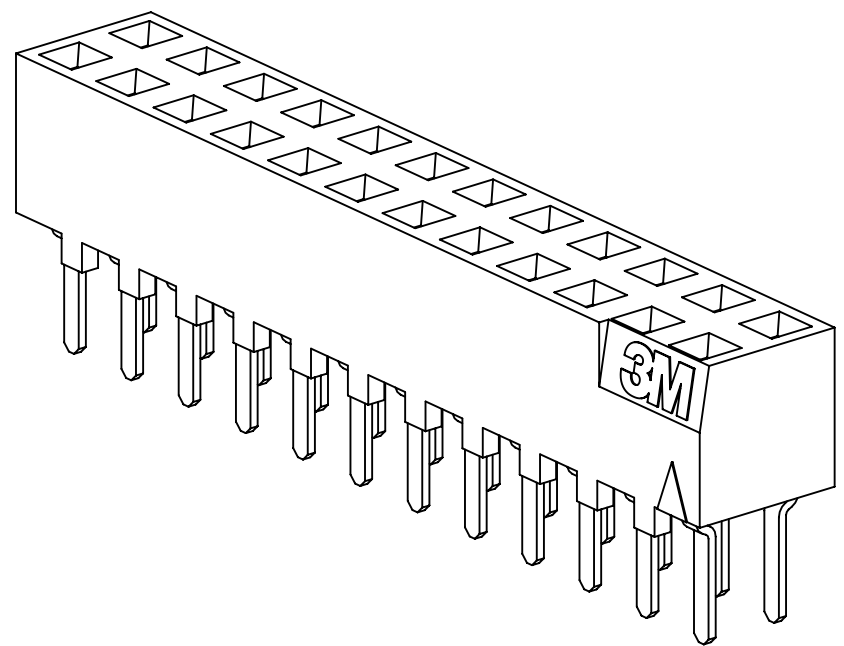
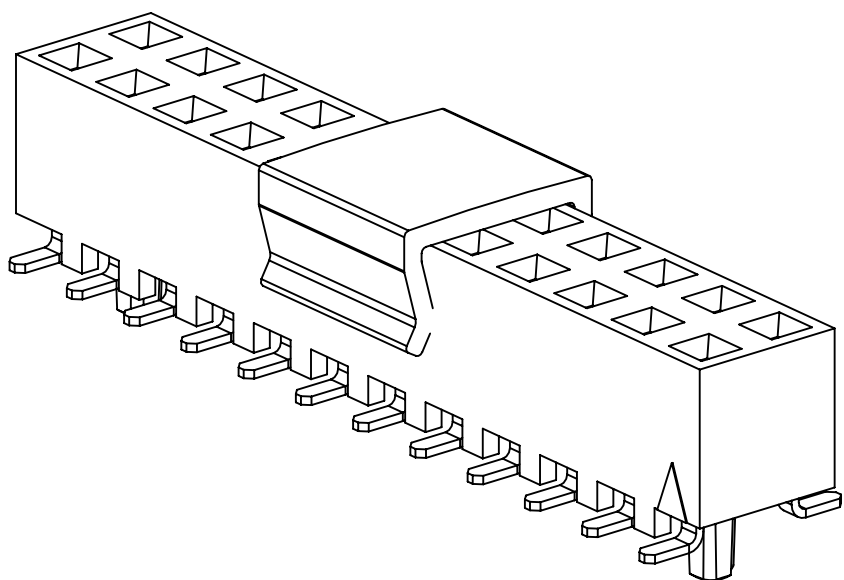


3M™ BOARDMOUNT SOCKET, 1502 SERIES  
2.00MM X 2.00MM STRAIGHT AND SURFACE MOUNT, PLATED THROUGH HOLE



STRAIGHT  
VERSION



SURFACE MOUNT  
VERSION

2 PHYSICAL :

INSULATOR: HIGH TEMP THERMOPLASTIC  
MATERIAL: COPPER ALLOY  
CONTACT: 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)

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**  
UL FILE NO: E68080

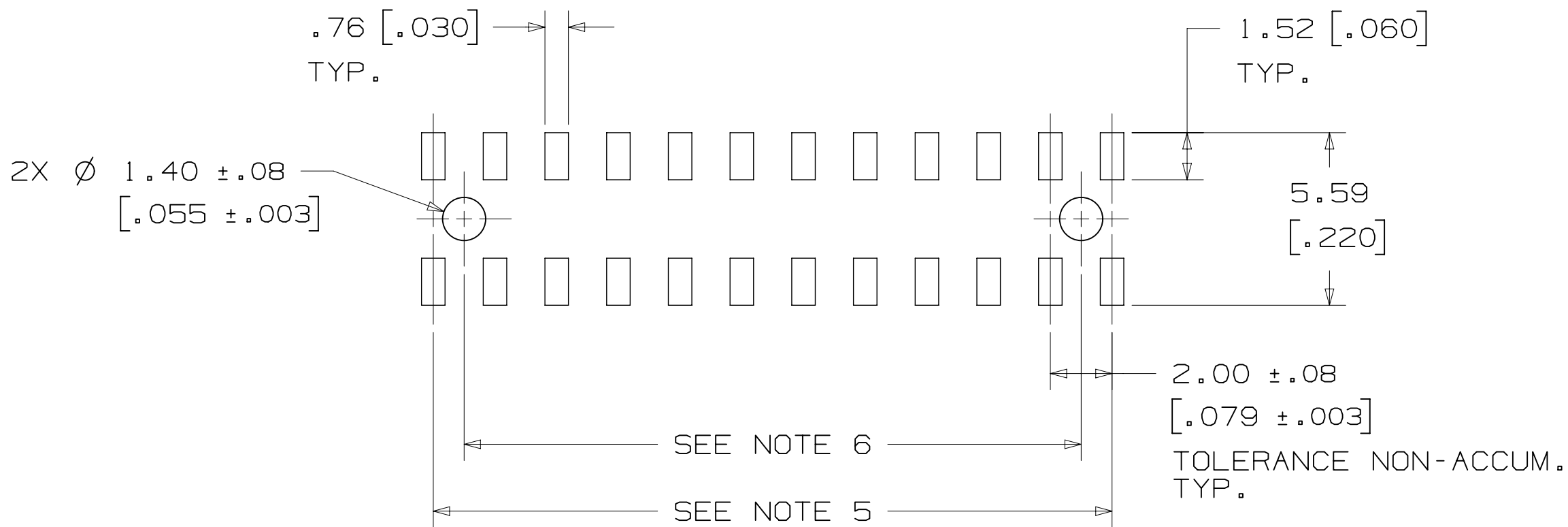
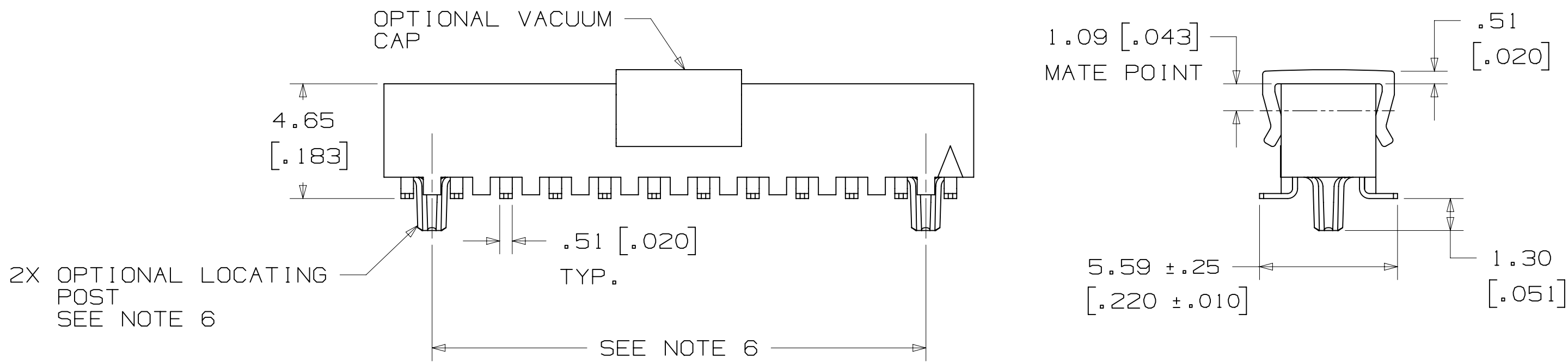
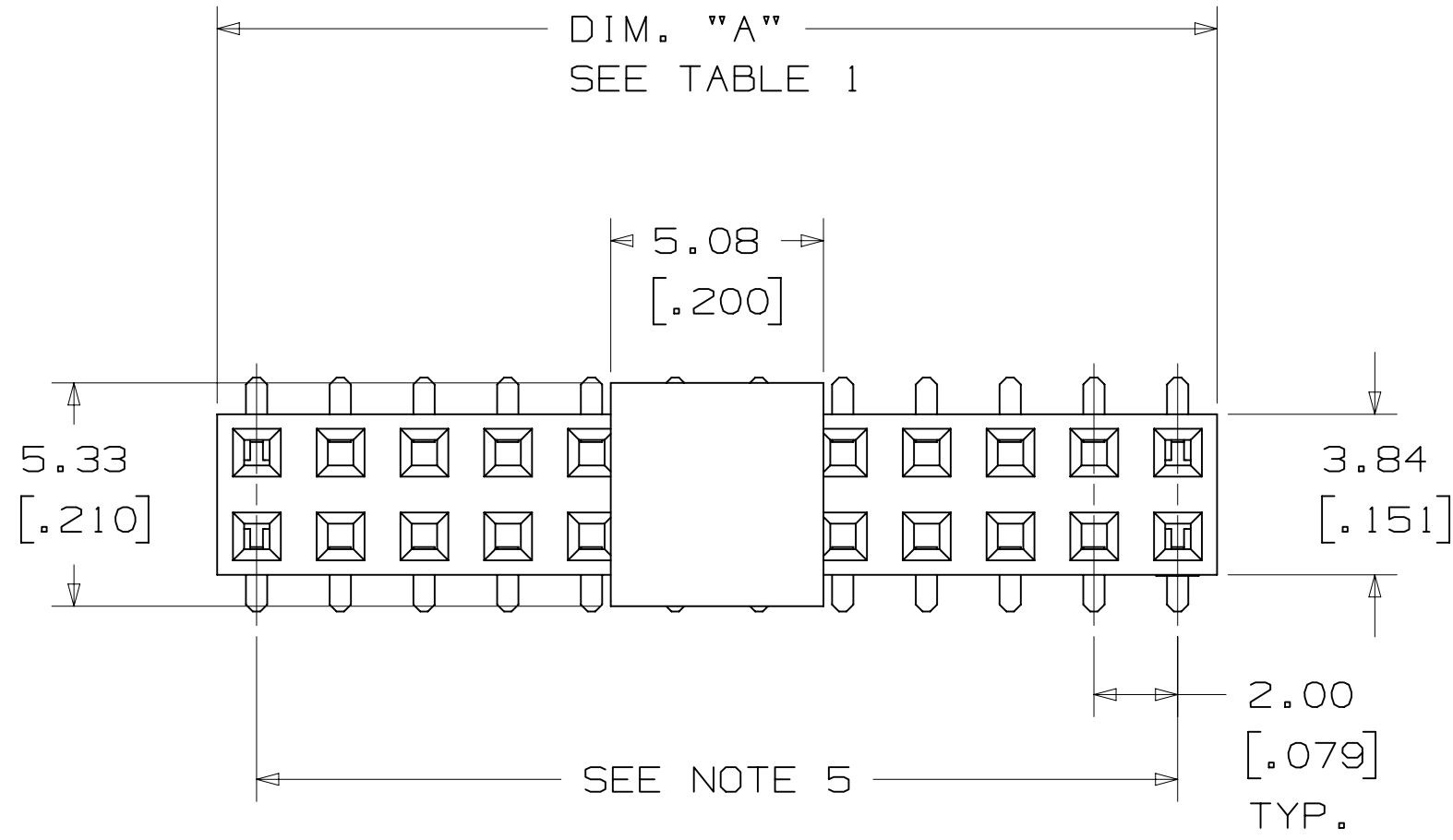
DIMENSIONS: MM [ INCH ] [ INCH ] FOR REF. ONLY				K	63282	SEP 03,2015		JNC	ARM
DESIGN REFERENCE				NEXT ASSEMBLY		REDRAWN & REMOVED RIGHT ANGLE			
AKSOP CODES				REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
				DRFT	CASTIGLIONE	SEP 03,2015		MFG	DATE
				CHKD		DATE		APPRV G. MATHEWS	DATE SEP 03,2015
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2017					
		EMSD		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 6 1		TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144			
		INCHES .0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002		TITLE BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20					
THIRD ANGLE PROJECTION		MILLIMETERS 0 ± .2 .0 ± .13 .00 ± .005							
INTERPRET PER ASME Y14.5 - 2009				CAGE NUMBER					
MAX SURFACE ROUGHNESS 0.4 µm SURFACES ✓ MARKED ONLY				SIZE		DRAWING NO.		REV.	
				D		78-5100-0519-8		K	
				MODEL		1502		DET. LISTS	
						YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		SHT 1 OF 4	



## A

CB

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)

TABLE 1			
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
3M Center St. Paul, MN 55144	3M Center St. Paul, MN 55144	SEP 03,2015	SEP 03,2015	SEP 03,2015	SEP 03,2015	SEP 03,2015
DO NOT SCALE DRAWING	SCALE 6 1	TOLERANCES EXCEPT AS NOTED	INCHES .00 ±.01 .000 ±.005 .0000 ±.0002	MILLIMETERS 0 ±.2 .00 ±.13 .000 ±.005	MARKED ONLY	ANGLES
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MAX SURFACE ROUGHNESS	0.00 ±.13 .000 ±.005	0.00 ±.13 .000 ±.005	0.00 ±.13 .000 ±.005	0.00 ±.13 .000 ±.005
3M	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.	SEP 03,2015	SEP 03,2015	SEP 03,2015
TITLE	BOARDMOUNT SOCKET, 2MM X 2MM, STRAIGHT & SMT, PAC 20	CAGE NUMBER	SIZE	DRAWING NO.	REV.	REV.
D	78-5100-0519-8	K	3	OF 4	3	OF 4
MODEL	1502	DET	LISTS	YES	NO	SHT

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DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION	JNC	ARM
ADDRESS CODES 		DIVISION CODE <b>EMSD</b>		DRT <b>CAS TIG LIONE</b>	DATE <b>SEP 03, 2015</b>	MFG DATE <b>SEP 03, 2015</b>	DRFT <b>ARM</b>	CHKO <b>ARM</b>
DIVISION  DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED  INCHES .00 .0000 .01 .0001 .02 .0002 .03 .0003 .04 .0004 .05 .0005 .06 .0006 .07 .0007 .08 .0008 .09 .0009 .10 .0010 .11 .0011 .12 .0012 .13 .0013 .14 .0014 .15 .0015 .16 .0016 .17 .0017 .18 .0018 .19 .0019 .20 .0020 .21 .0021 .22 .0022 .23 .0023 .24 .0024 .25 .0025 .26 .0026 .27 .0027 .28 .0028 .29 .0029 .30 .0030 .31 .0031 .32 .0032 .33 .0033 .34 .0034 .35 .0035 .36 .0036 .37 .0037 .38 .0038 .39 .0039 .40 .0040 .41 .0041 .42 .0042 .43 .0043 .44 .0044 .45 .0045 .46 .0046 .47 .0047 .48 .0048 .49 .0049 .50 .0050 .51 .0051 .52 .0052 .53 .0053 .54 .0054 .55 .0055 .56 .0056 .57 .0057 .58 .0058 .59 .0059 .60 .0060 .61 .0061 .62 .0062 .63 .0063 .64 .0064 .65 .0065 .66 .0066 .67 .0067 .68 .0068 .69 .0069 .70 .0070 .71 .0071 .72 .0072 .73 .0073 .74 .0074 .75 .0075 .76 .0076 .77 .0077 .78 .0078 .79 .0079 .80 .0080 .81 .0081 .82 .0082 .83 .0083 .84 .0084 .85 .0085 .86 .0086 .87 .0087 .88 .0088 .89 .0089 .90 .0090 .91 .0091 .92 .0092 .93 .0093 .94 .0094 .95 .0095 .96 .0096 .97 .0097 .98 .0098 .99 .0099 1.00 .0100 1.01 .0101 1.02 .0102 1.03 .0103 1.04 .0104 1.05 .0105 1.06 .0106 1.07 .0107 1.08 .0108 1.09 .0109 1.10 .0110 1.11 .0111 1.12 .0112 1.13 .0113 1.14 .0114 1.15 .0115 1.16 .0116 1.17 .0117 1.18 .0118 1.19 .0119 1.20 .0120 1.21 .0121 1.22 .0122 1.23 .0123 1.24 .0124 1.25 .0125 1.26 .0126 1.27 .0127 1.28 .0128 1.29 .0129 1.30 .0130 1.31 .0131 1.32 .0132 1.33 .0133 1.34 .0134 1.35 .0135 1.36 .0136 1.37 .0137 1.38 .0138 1.39 .0139 1.40 .0140 1.41 .0141 1.42 .0142 1.43 .0143 1.44 .0144 1.45 .0145 1.46 .0146 1.47 .0147 1.48 .0148 1.49 .0149 1.50 .0150 1.51 .0151 1.52 .0152 1.53 .0153 1.54 .0154 1.55 .0155 1.56 .0156 1.57 .0157 1.58 .0158 1.59 .0159 1.60 .0160 1.61 .0161 1.62 .0162 1.63 .0163 1.64 .0164 1.65 .0165 1.66 .0166 1.67 .0167 1.68 .0168 1.69 .0169 1.70 .0170 1.71 .0171 1.72 .0172 1.73 .0173 1.74 .0174 1.75 .0175 1.76 .0176 1.77 .0177 1.78 .0178 1.79 .0179 1.80 .0180 1.81 .0181 1.82 .0182 1.83 .0183 1.84 .0184 1.85 .0185 1.86 .0186 1.87 .0187 1.88 .0188 1.89 .0189 1.90 .0190 1.91 .0191 1.92 .0192 1.93 .0193 1.94 .0194 1.95 .0195 1.96 .0196 1.97 .0197 1.98 .0198 1.99 .0199 2.00 .0200 2.01 .0201 2.02 .0202 2.03 .0203 2.04 .0204 2.05 .0205 2.06 .0206 2.07 .0207 2.08 .0208 2.09 .0209 2.10 .0210 2.11 .0211 2.12 .0212 2.13 .0213 2.14 .0214 2.15 .0215 2.16 .0216 2.17 .0217 2.18 .0218 2.19 .0219 2.20 .0220 2.21 .0221 2.22 .0222 2.23 .0223 2.24 .0224 2.25 .0225 2.26 .0226 2.27 .0227 2.28 .0228 2.29 .0229 2.30 .0230 2.31 .0231 2.32 .0232 2.33 .0233 2.34 .0234 2.35 .0235 2.36 .0236 2.37 .0237 2.38 .0238 2.39 .0239 2.40 .0240 2.41 .0241 2.42 .0242 2.43 .0243 2.44 .0244 2.45 .0245 2.46 .0246 2.47 .0247 2.48 .0248 2.49 .0249 2.50 .0250 2.51 .0251 2.52 .0252 2.53 .0253 2.54 .0254 2.55 .0255 2.56 .0256 2.57 .0257 2.58 .0258 2.59 .0259 2.60 .0260 2.61 .0261 2.62 .0262 2.63 .0263 2.64 .0264 2.65 .0265 2.66 .0266 2.67 .0267 2.68 .0268 2.69 .0269 2.70 .0270 2.71 .0271 2.72 .0272 2.73 .0273 2.74 .0274 2.75 .0275 2.76 .0276 2.77 .0277 2.78 .0278 2.79 .0279 2.80 .0280 2.81 .0281 2.8						

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