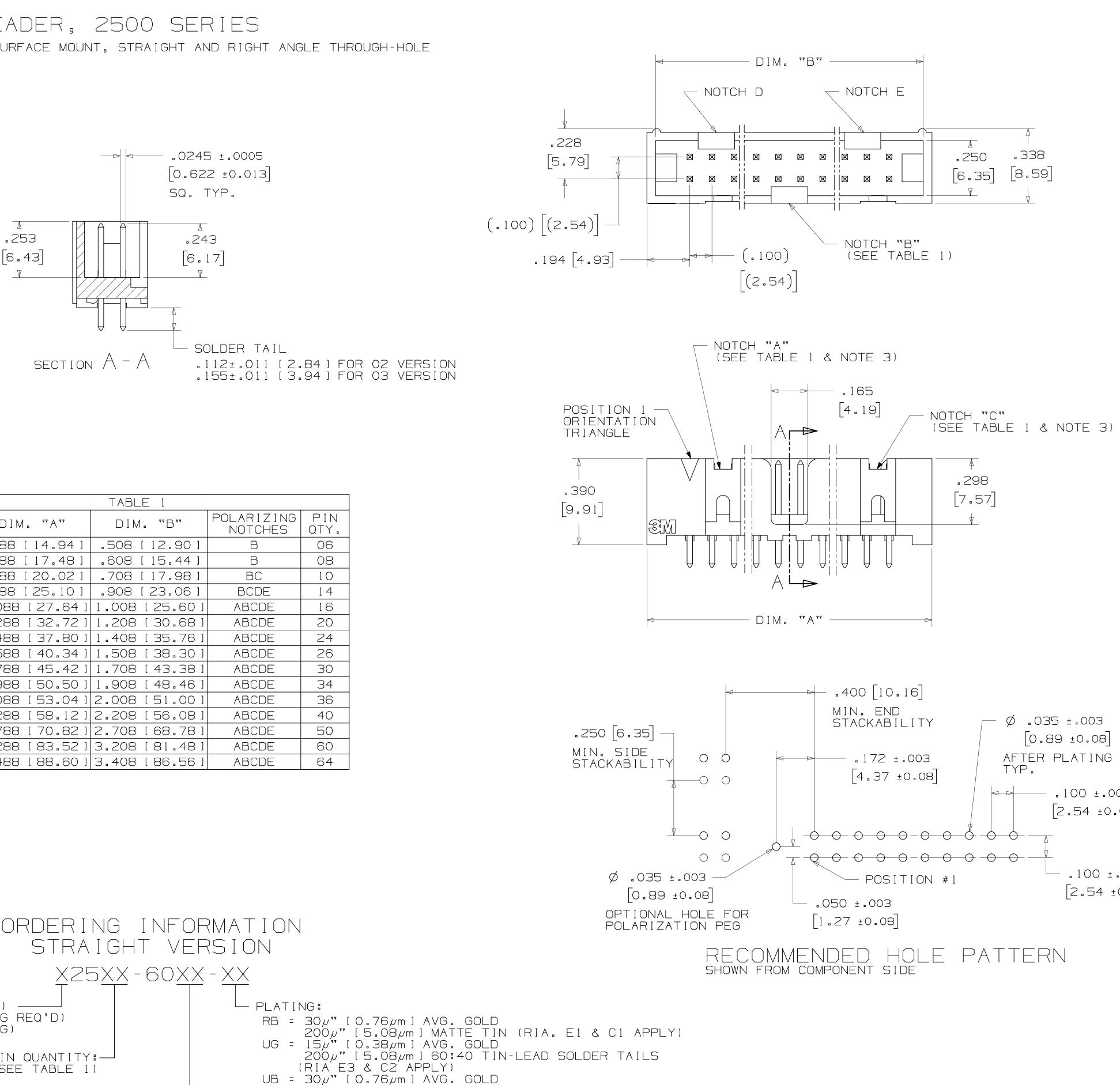


	5 4 3 2 1 NOTES	+
IOLE	 LOW PROFILE, SPACE SAVING DESIGN. CENTER SLOT POLARIZATION PREVENTS MIS-INSERTIONS AND REDUCES INSERTION TWE. DUAL SLOT POLARIZATION MEANS BROADER COMPATIBILITY WITH COMPETITIVE POLARIZATION DESIGNS INOT AVAILABLE ON 6, B OR IO POSITIONS OPTIONAL RELIABILITY IN VIBRATION-FROME ENVIRONMENTS. HIGH TEMPERATURE INSULATOR SUITABLE FOR "NO LEAD" SOLDERING OPERATIONS. THROUGH HOLE VERSION SUITABLE FOR REFLOW SOLDERING USING "PASTE IN HOLE" EXPOSED SOLDER TAILS (ON RIGHT ANGLE VERSION) PROVIDE EASE OF CLEANING AND REDUCED REPAIR COST. STRAIGHT SURFACE MOUNT VERSION AVAILABLE. MICHES A & C WILL ACCOMDATE NOTCHES A & C WILL ACCOMDATE SOLDER STANDOFFS FACILITATE. ONTACT TAILS .0245 1.622 WIFE WITH .0075 1.1911 OCRNER RADII AND .028 1.0721 DIAGRAAL. 	
	<pre>2 PHYSICAL:</pre>	C
	2 ELECTRICAL: CURRENT RATING: 5.00A, 1 CONTACT POWERED 3.00A, 6 CONTACTS POWERED 1.75A, ALL CONTACTS POWERED RATING CONDITIONS: E1A-364-070 METHOD 2, 30°C MAXIMUM TEMPERATURE RISE, 20% DERATED. REFERENCE APPROPRIATE 3M PRODUCT SPECIFICATION FOR DETAILED CURRENT DERATING CURVES. INSULATION RESISTANCE: >1 X 10°Ω AT 500 V _{oc} WITHSTANDING VOLTAGE: 1,000V _{RMS} AT SEA LEVEL	-0770-7 N REVISION
	ENVIRONMENTAL: temperature rating: -55°C to 105°C process rating: 260°C, per J-Std-020C, single pass isture sensitivity level: 1 (per J-Std-020C)	DRAWING NUMBER
	DIMENSIONS: INCHES IMMI DIMENSIONS: INCHES IMMI IMMI US REF. ONLY M 58068 AUG 02,2016 JUC 50 SEVISE DIM ON SHIZ 6 CLIP CHART ON SHIZ 6 M 58068 AUG 02,2016 JUC 50 SEVISE DIM ON SHIZ 6 SEVISE DATA CONSTITUTION M 58068 AUG 02,2016 JUC 50 SEVISE DIM ON SHIZ 6 SEVISE DATA CONSTITUTION M 58068 AUG 02,2016 JUC 50 SEVISE DIM ON SHIZ 6 SEVISE DATA CONSTITUTION M 58068 AUG 02,2016 JUC 50 SEVISE DIM ON SHIZ 6 SEVISE DATA CONSTITUTION M 58068 AUG 02,2016 JUC 50 SEVISE DATA CONSTITUTION SEVISE DATA CONSTITUTION M 58068 AUG 02,2016 JUC 50 SEVISE DATA CONSTITUTION M 58068 AUG 02,2016 JUC 50 SEVISE DATA CONSTITUTION SEVISE DATA CONSTITUTION SEVIS DATA CONSTITUTION SEVI	maged: N.1 8/5/2016 11:10



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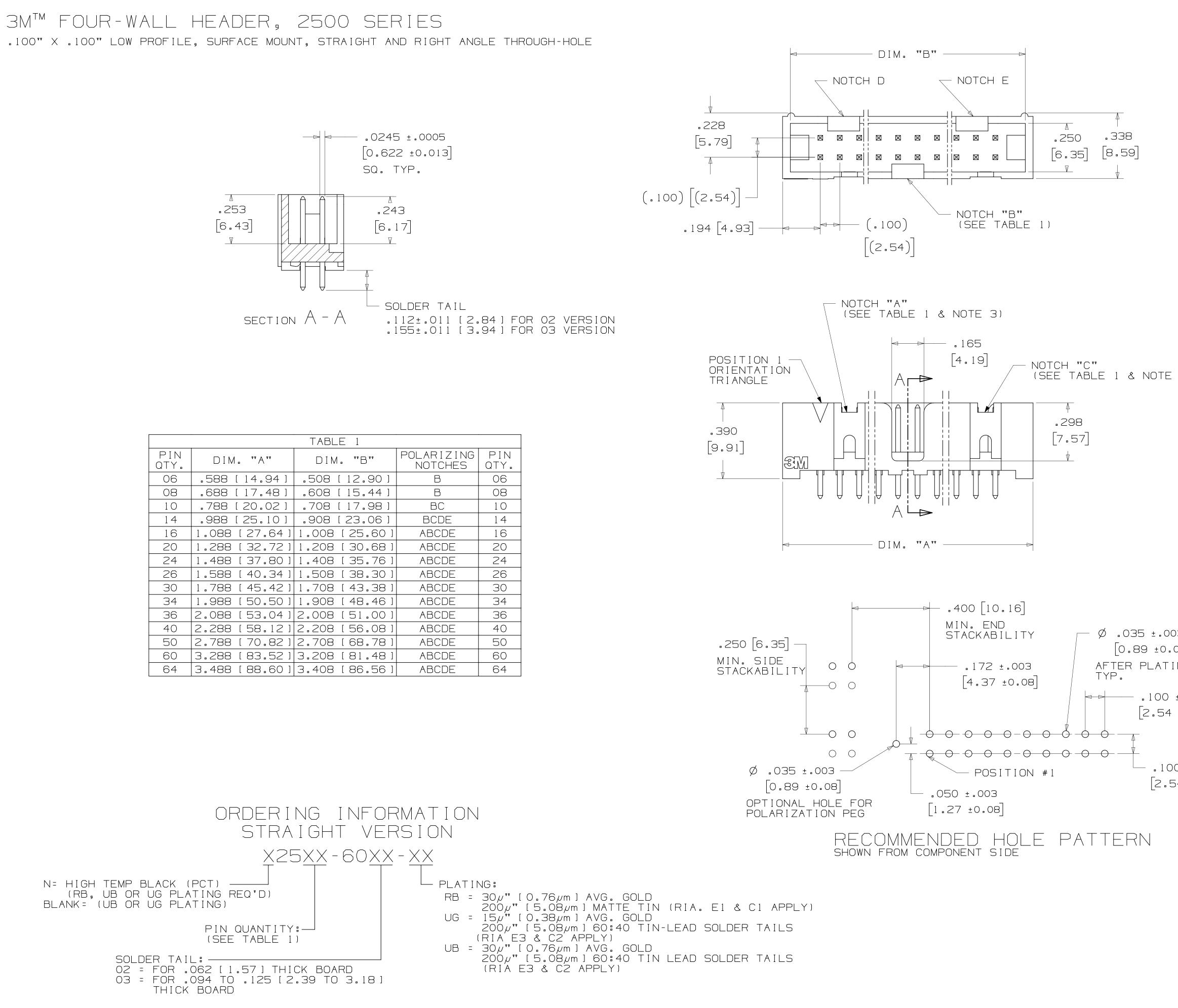
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	TABLE 1							
PIN QTY.		DIM. "B"	POLARIZING NOTCHES	PIN qty.				
06	.588 [14.94]	.508 [12.90]	В	06				
08	.688 [17.48]	.608 [15.44]	В	80				
10	.788 [20.02]	.708 [17.98]	BC	10				
14	.988 [25.10]	.908 [23.06]	BCDE	14				
16	1.088 [27.64]	1.008 [25.60]	ABCDE	16				
20	1.288 [32.72]	1.208 [30.68]	ABCDE	20				
24	1.488 [37.80]	1.408 [35.76]	ABCDE	24				
26	1.588 [40.34]	1.508 [38.30]	ABCDE	26				
30	1.788 [45.42]	1.708 [43.38]	ABCDE	30				
34	1.988 [50.50]	1.908 [48.46]	ABCDE	34				
36	2.088 [53.04]	2.008 [51.00]	ABCDE	36				
40	2.288 [58.12]	2.208 [56.08]	ABCDE	40				
50	2.788 [70.82]	2.708 [68.78]	ABCDE	50				
60	3.288 [83.52]	3.208 [81.48]	ABCDE	60				
64	3.488 [88.60]	3.408 [86.56]	ABCDE	64				



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] 3 003 0.08]						1	DRAWING NUMBER 0770-7 REVISION
±.003 ±0.08						_	
	N 68	8908 Re CL	AUG 02,2 EVISE DIM _IP CHART	ON SHT2 &	JNC	SC	
	M 56	8068	AUG 11,2		JNC	RS	(- -
DESIGN REFERENCE NEXT AS	DRET	ECO ISS		D REDRAWN DESCRIPTION G	DRFT	СНКД	
CODES	CASTIG				SEP 05	,2014	A.
Interconnect Solutions EM	FOLERANCES EXCEPT AS NOTED	3M Center St. Paul, 5 MN 55144	© 3M his document and M property and m distributed withd disclosed other t all rights reserv	COPYRIGHT 2016 The information it c any not be reproduced but 3M permission, or than for 3M authorized red.	:ontains c or furthe used or purposes	มาค หา วัง	- - - -
			R, 4 , 10	\sim \sim	100	9	Ļ (
		SMT, S	ŚTRA I				-
MAX SURFACE ROUGHNESS .0 .0 .0 .0	D ± .13 NUMBER	size drawing	5100	-0770-	7	REV.	
MARKED ONLY AN	GLES MODEL	2500 SERIES	DET. LIS		HT 2 (DF 5	-

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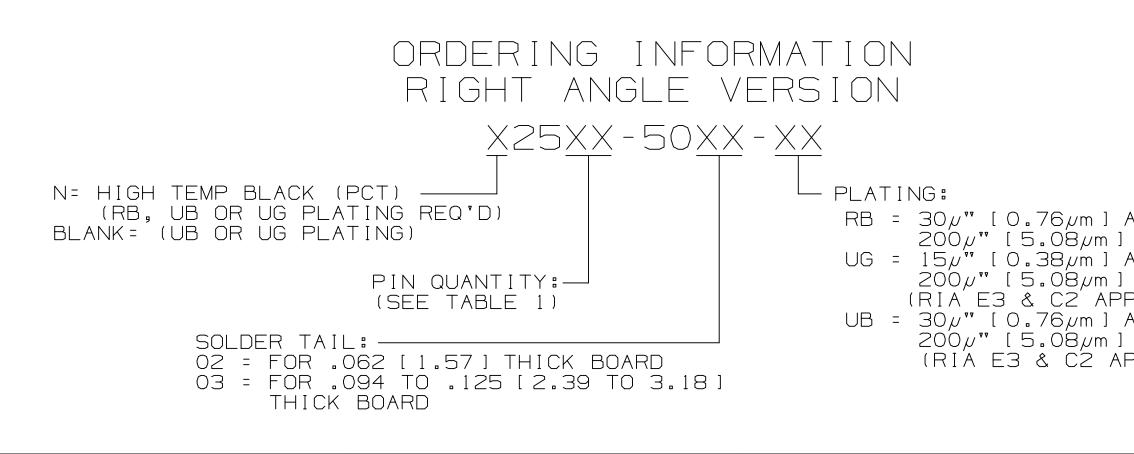
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3M[™] Four-Wall Header, 2500 series .100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE - .0245 ±.0005 0.622 ±0.013 SQ. TYP. .253 .243 **.**390 [6.43] [6.17] [9.91] .100 [2.54] — SOLDER TAIL .112±.011 [2.84] FOR 02 VERSION .155±.011 [3.94] FOR 03 VERSION SECTION B - B

7

	TABLE 1								
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	PIN QTY.					
06	.588 [14.94]	.508 [12.90]	В	06					
08	.688 [17.48]	.608 [15.44]	В	08					
10	.788 [20.02]	.708 [17.98]	BC	10					
14	.988 [25.10]	.908 [23.06]	BCDE	14					
16	1.088 [27.64]	1.008 [25.60]	ABCDE	16					
20	1.288 [32.72]	1.208 [30.68]	ABCDE	20					
24	1.488 [37.80]	1.408 [35.76]	ABCDE	24					
26	1.588 [40.34]	1.508 [38.30]	ABCDE	26					
30	1.788 [45.42]	1.708 [43.38]	ABCDE	30					
34	1.988 [50.50]	1.908 [48.46]	ABCDE	34					
36	2.088 [53.04]	2.008 [51.00]	ABCDE	36					
40	2.288 [58.12]	2.208 [56.08]	ABCDE	40					
50	2.788 [70.82]	2.708 [68.78]	ABCDE	50					
60	3.288 [83.52]	3.208 [81.48]	ABCDE	60					
64	3.488 [88.60]	3.408 [86.56]	ABCDE	64					



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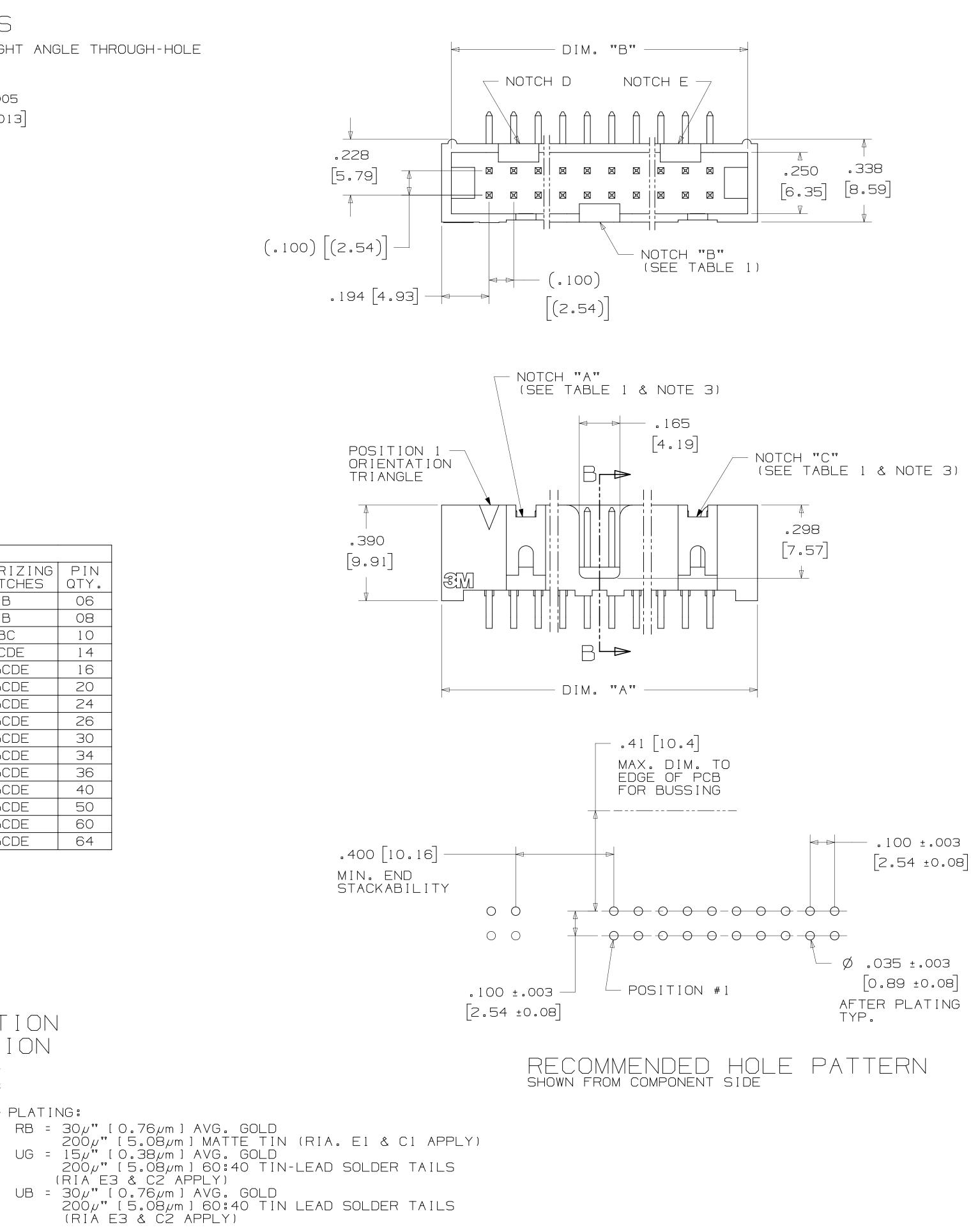
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		Ν	6890	80	AUG O	2,2016	JNC	SC	
						NIM ON SHT2 RT ON SHT5	&		
		М	5606	68	AUG 1	1,2014	JNC	RS	
					REVISED	AND REDRAWN			
	ASSEMBLY	REV	EC	0		AND DESCRIPTION	DRFT	CHKD	
ACCESS CODES		DRFT CAS	TIGLIC	DNE	AUG 11,2014	4 MFG	DATE		
		СНКД			DATE		SEP C	5,2014	
Interconnect Solutions DO NOT SCALE SCALE <u>4</u> DRAWING 1 THIRD ANGLE PROJECTION	DIVISION CODE EMSD TOLERANCES EXCEPT AS NOTED INCHES .0 ± .00 ± .01 .000 ± .005 .0000 ±	TITLE		3M Center St. Paul, MN 55144	This document 3M property of distributed disclosed ot All rights no	4 - WALL 100 X	- 9 1 O(es.	
INTERPRET PER ASME Y14.5 - 2009 MAX SURFACE ROUGHNESS DALE SURFACES	MILLIMETERS 0 ± .0 ±.3 .00 ±.13 .000 ± ANGLES			ize draw	$\frac{\text{STR}}{1 \text{NG NO.}}$	0 - 0770	& R/	REV.	
	ANULES -		2500	O SERIES		ISTS 🗆 YES 🛛 NO	0 SHT 3	OF 5	F

78-51 В

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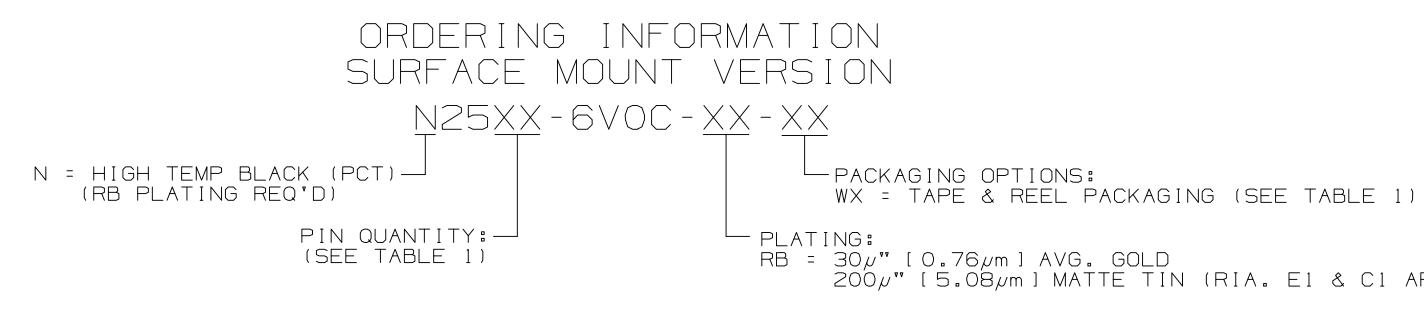
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8 6 $\overline{}$ 3M[™] Four-Wall Header, 2500 series .100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE VACUUM CAP REMOVED — For clarity .0245 ±.0005 [0.622 ±0.013] .253 — [6.43] SQ. TYP. <u>2</u>43 .400 ±.010 [6.17] [10.16 ±0.25] .004 FOR LESS THAN 30 POS. .170 [4.32] -.006 FOR 30 AND ABOVE POS. .440 ±.010 [11.18 ±0.25]

SECTION C - C

				·	
		TABLE	1		
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	TAPE AND REEL PKG CODE	
06	.588 [14.94]	.508 [12.90]	В	WD (44 MM)	
80	.688 [17.48]	.608 [15.44]	В	WD (44 MM)	
10	.788 [20.02]	.708 [17.98]	BC	WD (44 MM)	
14	.988 [25.10]	.908 [23.06]	BCDE	WD (44 MM)	
16	1.088 [27.64]	1.008 [25.60]	ABCDE	WD (44 MM)	
20	1.288 [32.72]	1.208 [30.68]	ABCDE	WE (56 MM)	
24	1.488 [37.80]	1.408 [35.76]	ABCDE	WE (56 MM)	
26	1.588 [40.34]	1.508 [38.30]	ABCDE	WE (56 MM)	
30	1.788 [45.42]	1.708 [43.38]	ABCDE	WF (72 MM)	
34	1.988 [50.50]	1.908 [48.46]	ABCDE	WF (72 MM)	
36	2.088 [53.04]	2.008 [51.00]	ABCDE	WG (88 MM)	
40	2.288 [58.12]	2.208 [56.08]	ABCDE	WG (88 MM)	
50	2.788 [70.82]	2.708 [68.78]	ABCDE	WG (88 MM)	
60	3.288 [83.52]	3.208 [81.48]	ABCDE	WH (120 MM)	
64	3.488 [88.60]	3.408 [86.56]	ABCDE	WH (120 MM)	



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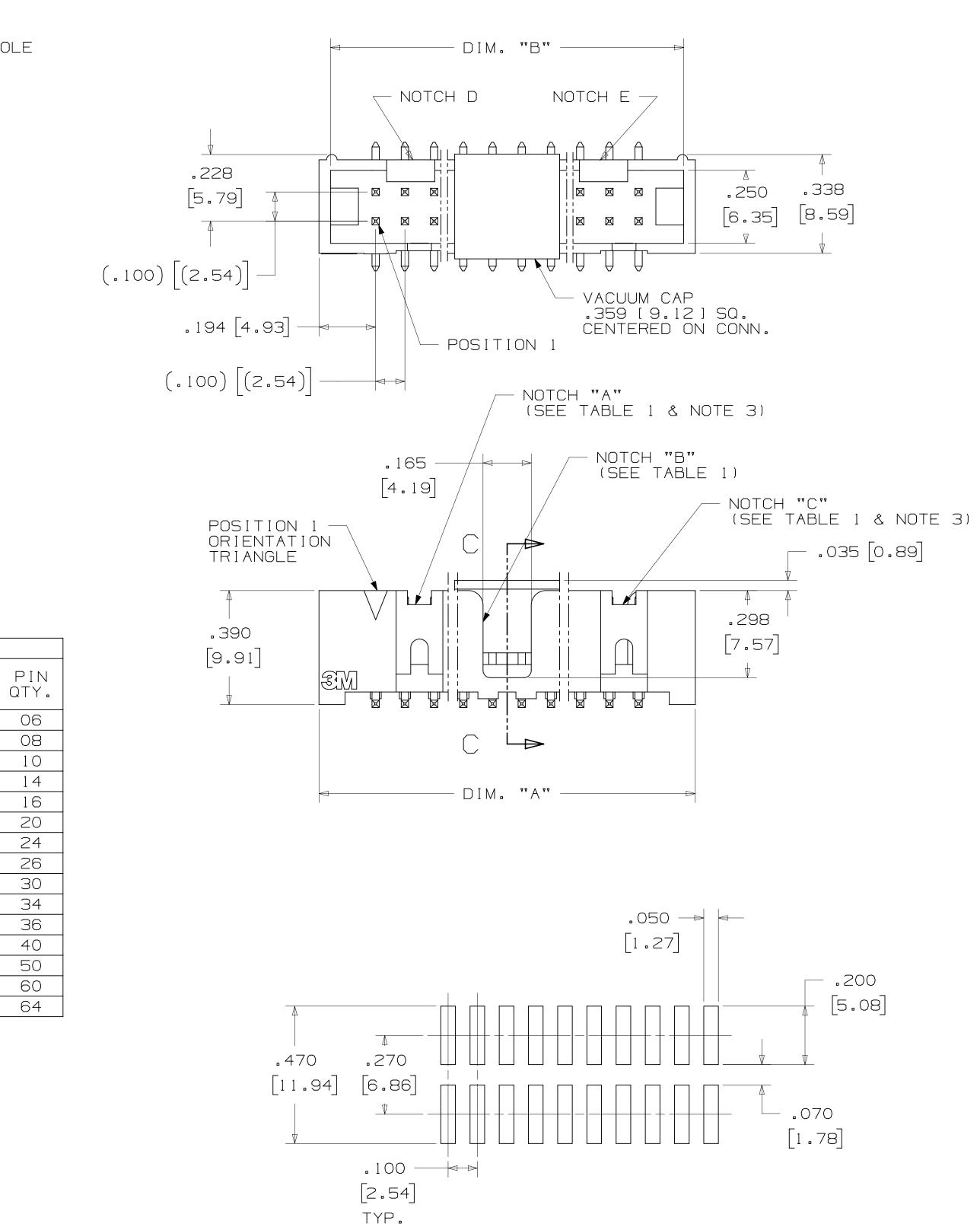
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RECOMMENDED PAD LAYOUT

RB = 30μ" [0.76μm] AVG. GOLD 200μ" [5.08μm] MATTE TIN (RIA. E1 & C1 APPLY)

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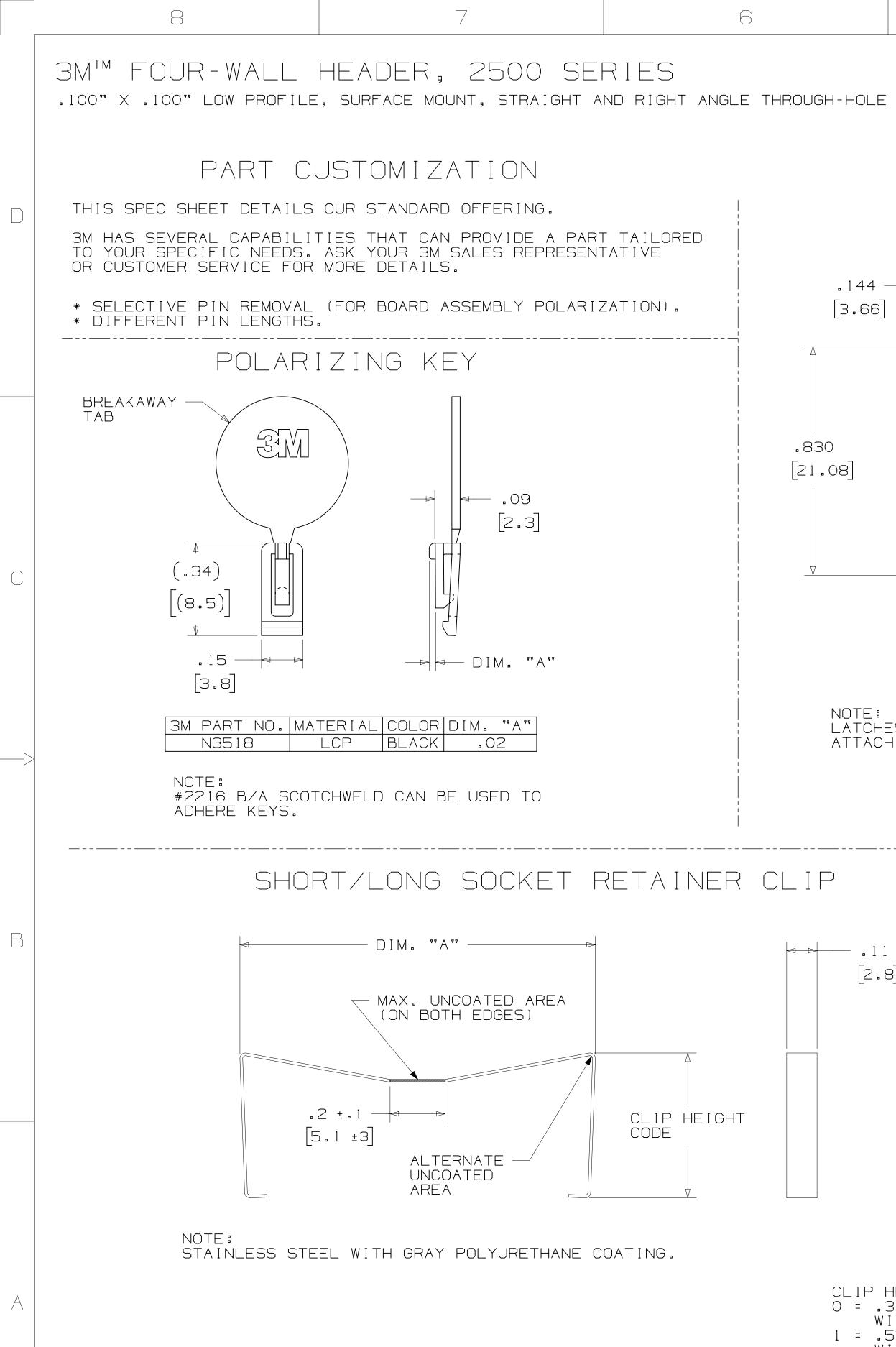
REVISION
78 - 5100 - 0770 - 7 DRAWING NUMBER

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В

	N	68908	AUG 02	2,2016	JNC	SC	
				M ON SHT2 & RT ON SHT5			
	М	56068	AUG 11	,2014	JNC	RS	
			REVISED A	ND REDRAWN			
DESIGN REFERENCE NEXT ASSEMBLY	REV	ECO	ISSUE DATE AN	ND DESCRIPTION	DRFT	СНКД	
ACCESS CODES	DRFT	TIGLIONE	DATE AUG 11,2014	MFG	DATE		
	СНКД		DATE		DATE SEP 05	5,2014	ŀ
DIVISION Interconnect Solutions DO NOT SCALE SCALE <u>4</u> DRAWING 1 TOLERANCES EXCEPT AS NOTED INCHES .0 ± .00 ± .01 .000 ± .005 .0000 ± .000 ± .005 .000 ± .000 ± .3 .00 ± .13 .000 ± .000 ± .00 ± .13 .000 ± .000 ± .000 ± .000 ± .13 .000 ± .000 ± .0000 ± .000 ±		HE, -O-F SMT	Center Paul, 55144 ADER, PRO, 1 PRO, 1 STRA DRAWING NO. 78-510(4-WALL, 00 X . IGHT & D-0770-	1 OC RA	er s.) g N REV.	,
		2500 SE		ISTS 🗆 YES 🛛 NO 🏻	5HT 4	OF 5	-



3505 - 8XXXCLIP HEIGHT CODE ______ [0 = .31 [7.9] FOR SOCKETS WITHOUT STRAIN RELIEF 1 = .53 [13.5] FOR SOCKETS WITH STRAIN RELIEF └─ PIN COUNT (SEE TABLE) NOTE : 1) THE FOLLOWING RETAINER CLIPS HAVE BEEN DISCONTINUED: 3505-8064 3505-8124 3505-8150

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LOW PROFILE LATCH POLARIZING POST <u>.</u>204 5.18 [3.00] .267 6.78 --⊳ .043 **.**370 **.**573 [1.09] 9.40 [14.55] .082 Ø .030 · .057 .118 [2.08] [0.76] 1.45 [3.00] PART NO. MATERIAL COLOR PART NO. MATERIAL COLOR 3201-3 PCT 3505-33B NYLON BLACK BLACK LATCHES NOT COMPATIBLE WITH REFLOW SOLDERING. ATTACH LATCHES AFTER SOLDERING.

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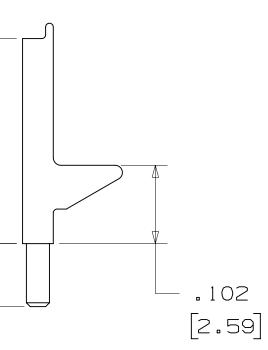
[2.8]

PIN QTY.	DIM. "A"
06	NZA
80	NZA
10	.81 [20.6]
14	1.02 [25.9]
16	1.12 [28.4]
20	1.32 [33.5]
24	1.52 [38.7]
26	1.63 [41.4]
30	1.83 [46.4]
34	2.03 [51.6]
36	NZA
40	2.33 [59.2]
50	2.83 [71.9]
60	3.33 [84.6]
64	3.53 [89.7]

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2	1



В

	N	68908	AUG 02	2,2016	JNC	SC
				IM ON SHT2 & RT ON SHT5		
	М	56068	AUG 1	1,2014	JNC	RS
			REVISED	AND REDRAWN		
DESIGN REFERENCE NEXT ASSEMBLY	REV	ECO	issue date a	ND DESCRIPTION	DRFT	СНКД
ACCESS CODES	DRFT	TIGLIONE	AUG 11,2014	MFG	DATE	
	СНКД		DATE		SEP 05	5,2014
DIVISION DIVISION CODE Interconnect Solutions EMSD DO NOT SCALE TOLERANCES SCALE 4 NOTED	3	st.	Center This document	3M COPYRIGHT 2016 and the information it ad may not be reproduced ithout 3M permission, or er than for 3M authorize served.	contains	
DRAWING 1 INCHES Image: transmission of transmissi transmission of transmission of tran	TITLE	HE,	PRO, 1	4-WALL, 00 X .	1 O C) ,
INTERPRET PER ASME Y14.5 - 2009 0 ± .0 ±.3		SMT	,	IGHT &	RA	
MAX SURFACE ROUGHNESS .00 ± .13 DAL SURFACES .000 ±	NŪŇ		drawing no. 78-510	<u>)-0770-</u>	7	REV.
MARKED ONLY ANGLES	MOD	^{EL} 2500 SE		ET. Ists 🗆 yes 🛛 no S	SHT 5	OF 5