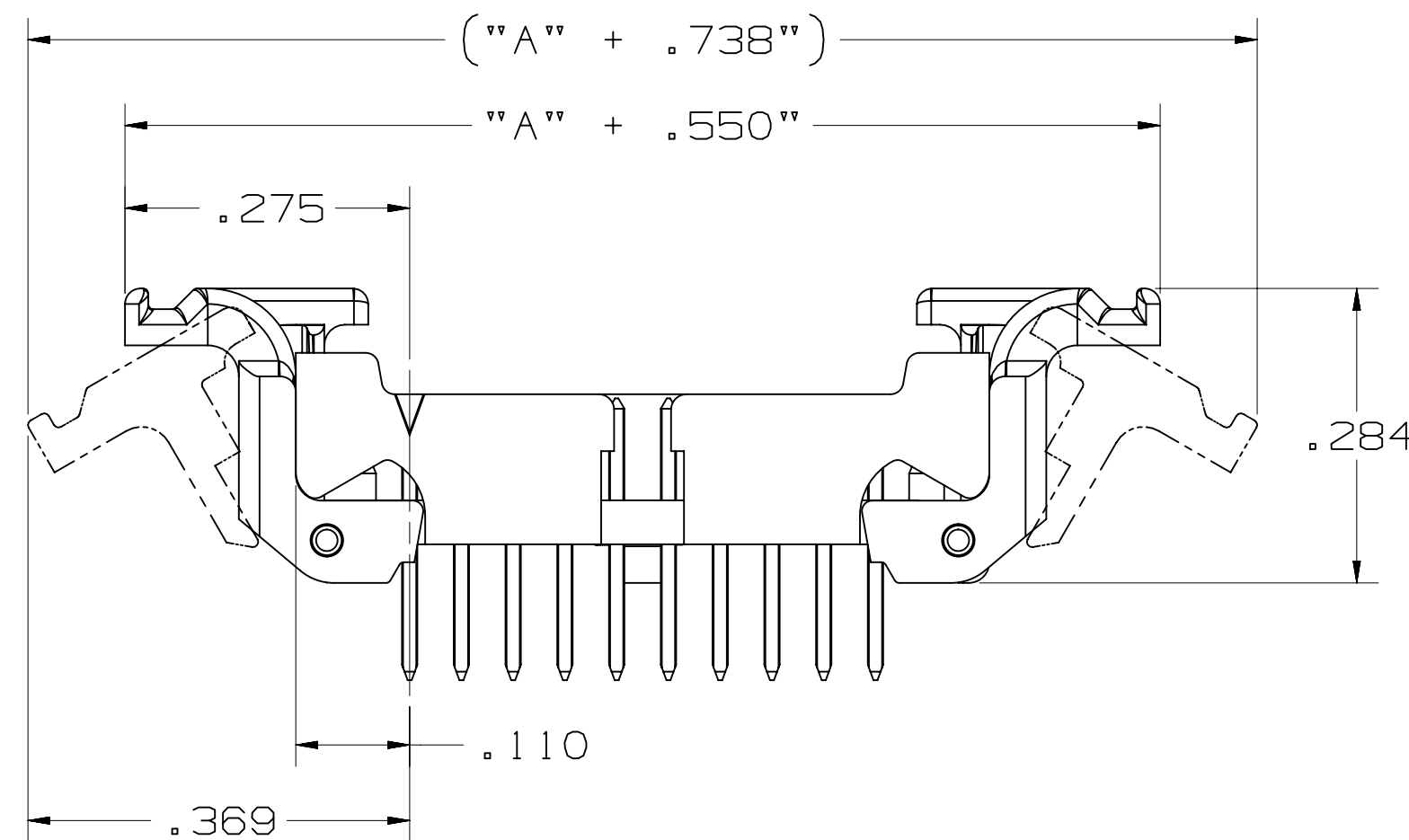
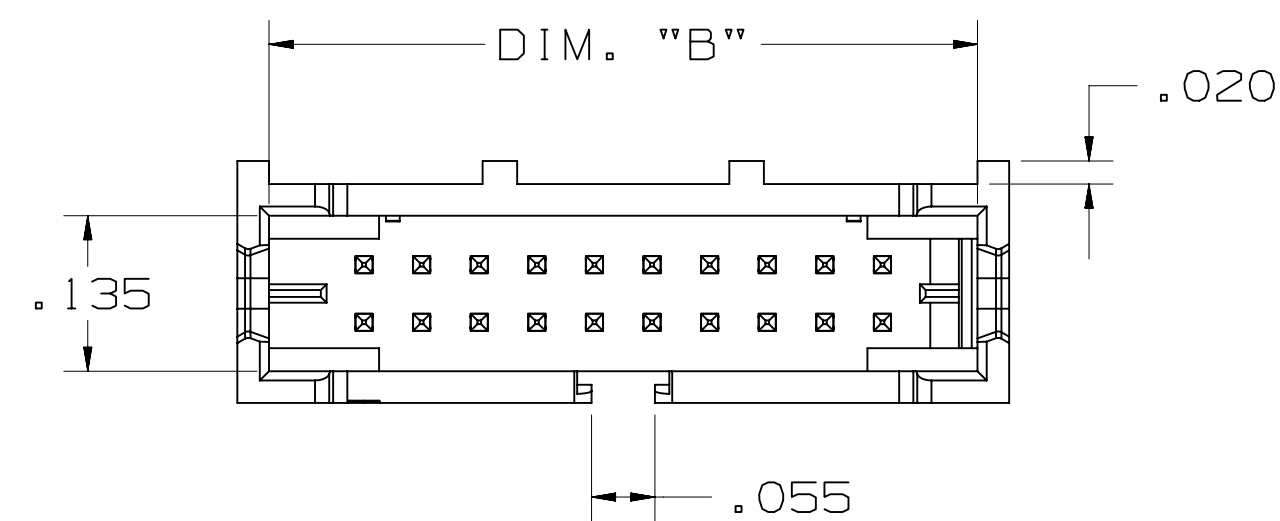


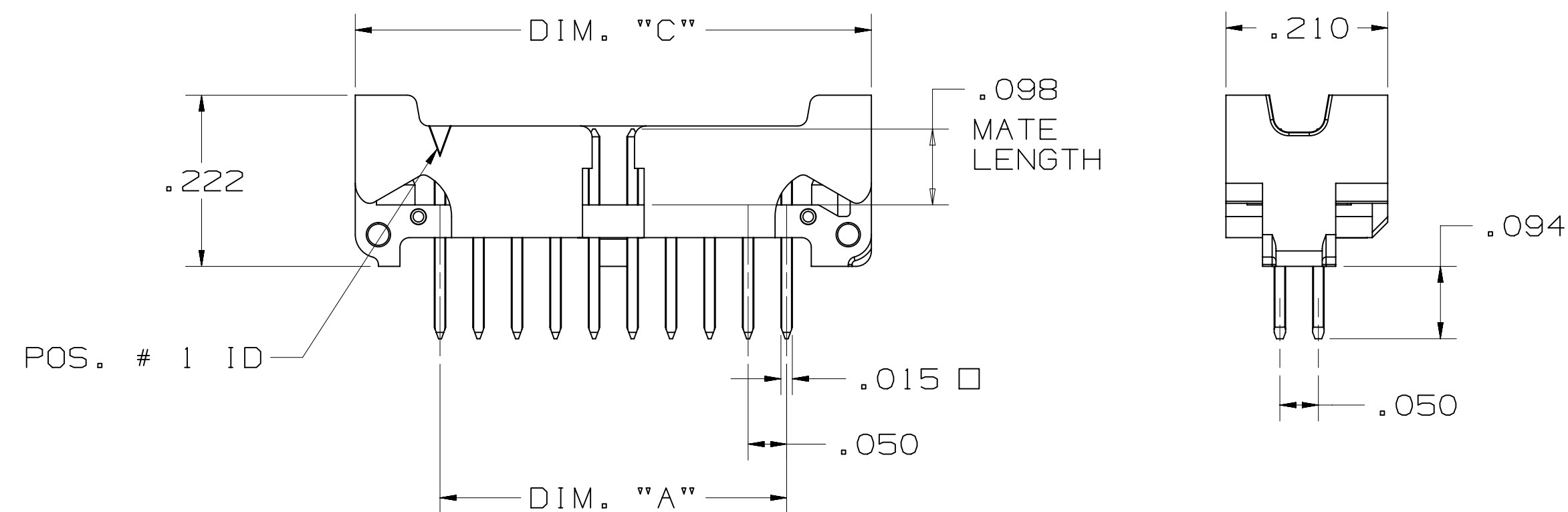
3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES



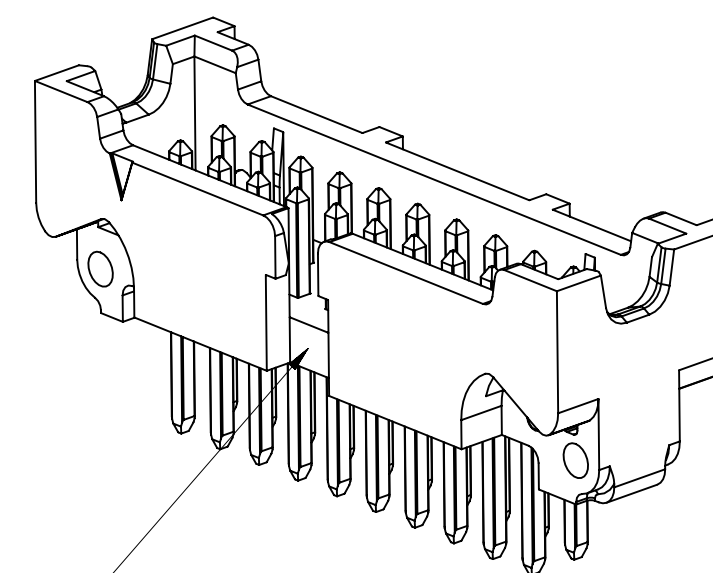
No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.215	.270
6	.100	.265	.320
8	.150	.315	.370
10	.200	.365	.420
12	.250	.415	.470
14	.300	.465	.520
16	.350	.515	.570
20	.450	.615	.670
30	.700	.865	.920

NOTES

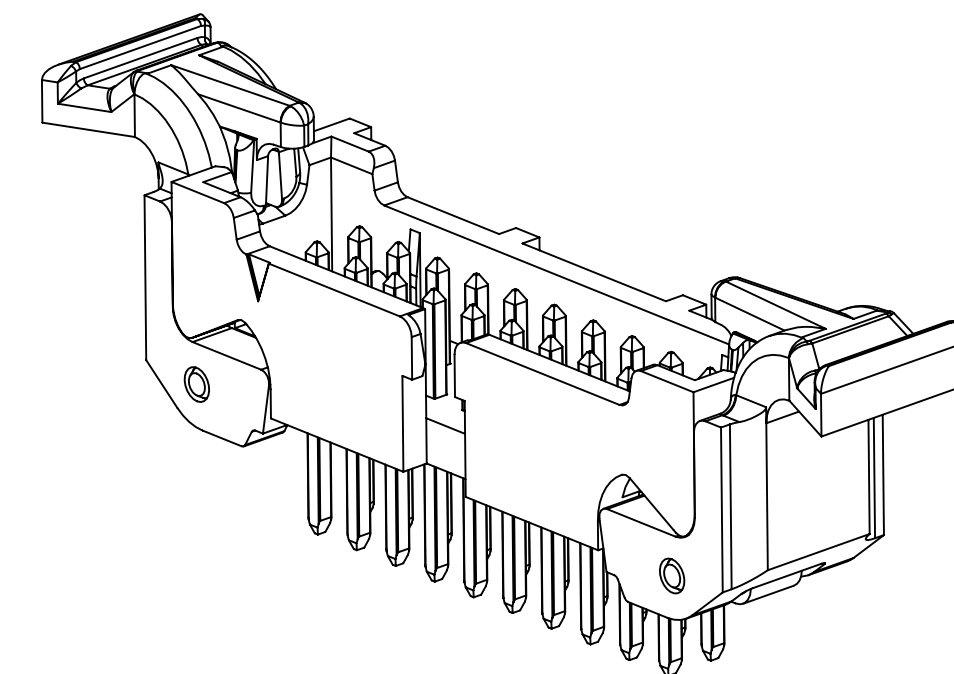
1. MATERIAL:
BODY: LCP, UL94V-0
LATCH: PPA, UL94V-0
CONTACTS: COPPER ALLOY.
2. PLATING:
50-150 μ " NICKEL UNDERPLATE
30 = 30 μ " GOLD MIN. ON
WIPING AREA WITH 200 μ "
MATTE TIN ON SOLDER TAIL
00 = GOLD FLASH ON WIPING
AREA WITH
100-140 μ " MATTE TIN ON
SOLDER TAIL.
3. MATING COMPATIBILITY:
3M 1.27mm (0.050"), 451 SERIES
RIBBON CABLE SOCKET, TECH
SHEETS TS-2436 AND TS-2396
4. REGULATORY INFORMATION:
VISIT 3M.com/regs
5. IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES
PRECEDENT.
6. REFERENCE PRODUCT SPEC:
3M DOC ID# 78-5102-0091-4
7. OTHER PIN COUNTS AVAILABLE
UPON REQUEST. CONTACT 3M.
8. UNLESS OTHERWISE NOTED,
REFERENCES TO INDUSTRY
SPECIFICATIONS ARE INTENDED
TO INDICATE SUBSTANTIAL
COMPLIANCE TO THE MATERIAL
ELEMENTS OF THE SPECIFICATION.
SUCH REFERENCES SHOULD NOT BE
CONSTRUED AS A GUARANTEE OF
COMPLIANCE TO ALL REQUIREMENTS
IN A GIVEN SPECIFICATION.
9. PACKAGING:
VERTICAL THRU: TRAY
RIGHT ANGLE THRU: TRAY
VERTICAL SMT: TAPE AND REEL.



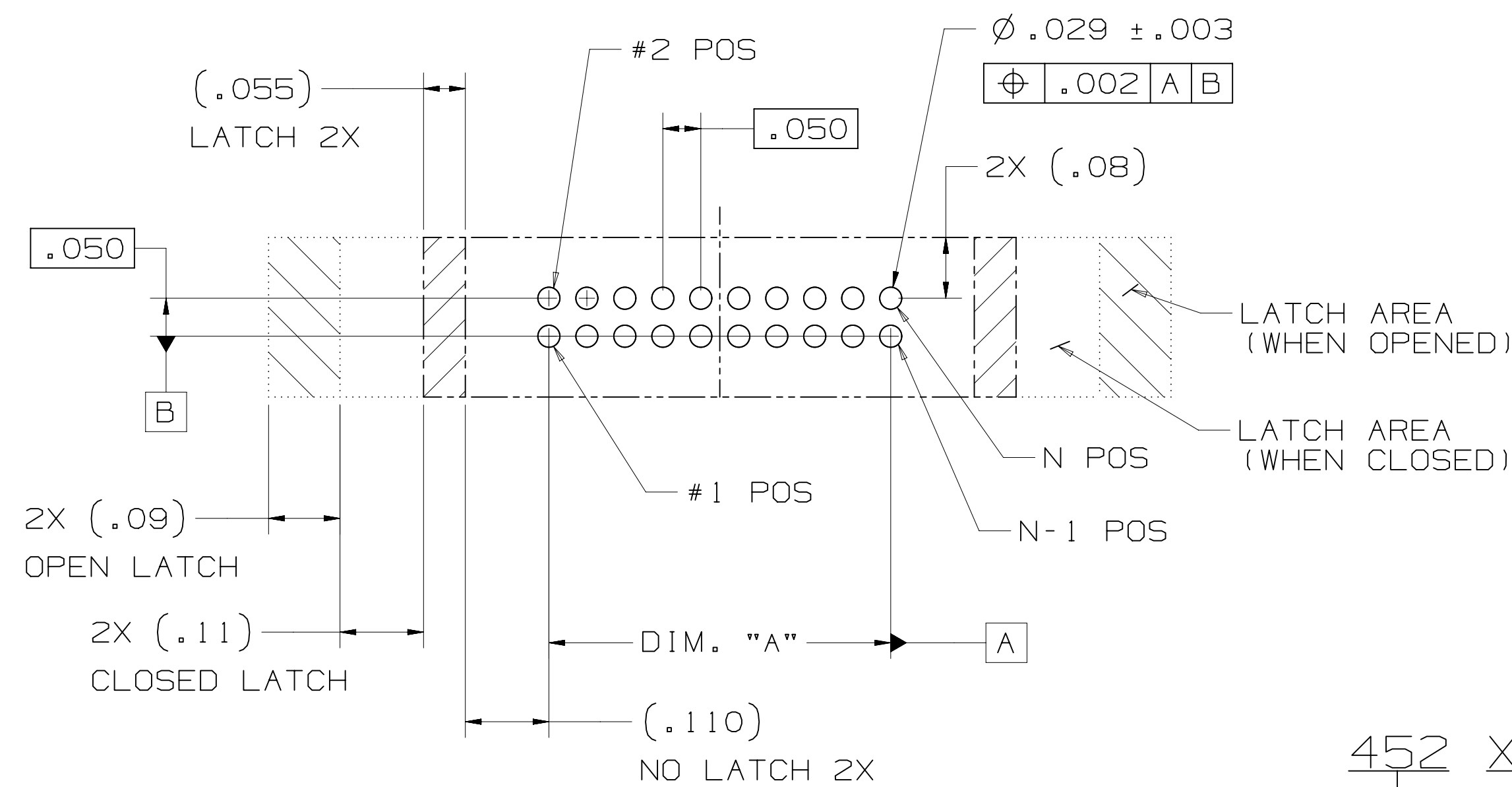
THRU BOARD, VERTICAL WITH
LOW PROFILE LATCH/EJECT OPTION



— POLARIZATION AND
FRICTION LATCHING
POSITIONS 8-30 ONLY



WITH LATCH/EJECT



RECOMMENDED BOARD LAYOUT

SERIES 452 XX - X X 0 2 XX
 POSITION COUNT ————
 04 - 30
 SEE TABLE 1

PLATING
 00 = Au FLASH
 30 = 30μ" GOLD

CONTACT TAIL
 2 = STANDARD (.094")

PART CONFIG. AND PACKAGING	
6 = VERTICAL THRU HOLE, TRAY PACKAGING	LATCH/EJECT
5 = RIGHT ANGLE THRU HOLE, TRAY PACKAGING	0 = NO LATCHES
2 = VERTICAL SMT, TAPE AND REEL WITH VAC CAP	2 = WITH LOW PROFILE LATCHES

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

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INFORMATION CALL 800-225-5373

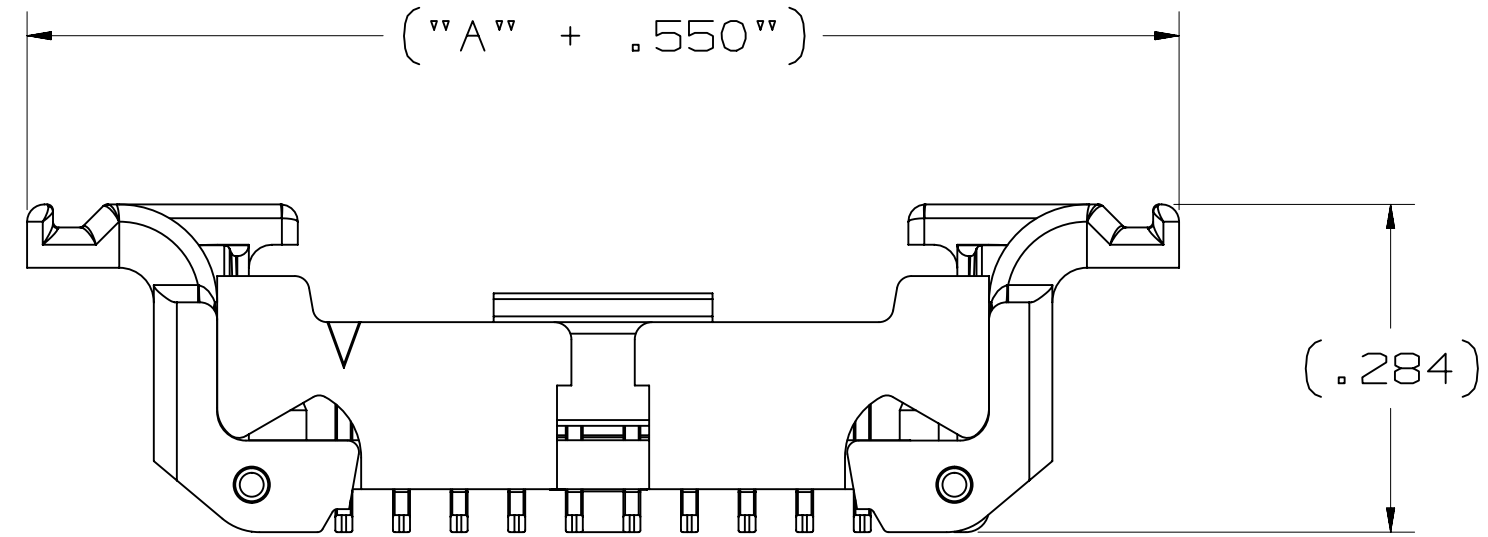
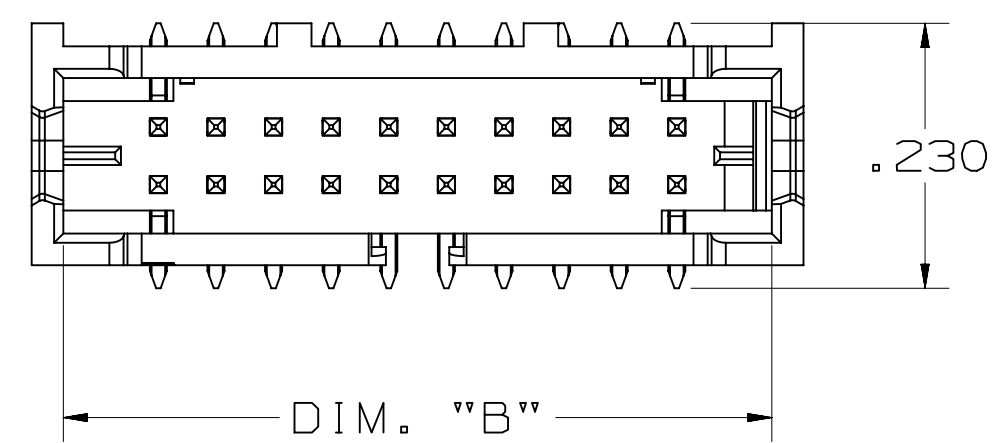
PERFORMANCE:	
CURRENT RATING:	1.0 A, ALL LINES ENERGIZED, 30°C TEMP RISE PER EIA 364-70
	1.5 A, 6 LINES ENERGIZED, 30°C TEMP RISE PER EIA 364-70
	2.5 A, 1 LINE ENERGIZED, 30°C TEMP RISE PER EIA 364-70
	1.0 A, UL & CUL NOT FOR CURRENT INTERRUPTION
UL & CUL VOLTAGE RATING:	125V _{ac}
INSULATION RESISTANCE:	> 1 × 10 ⁹ Ohms AT 500 VDC
WITHSTANDING VOLTAGE:	1250VAC _{rms} AT SEA LEVEL
OPERATING TEMPERATURE:	-65°C to +125°C
UL & CUL OPERATING TERMERATURE:	+125°C
PROCESSING TEMPERATURE:	260°C
LEAD-FREE SOLDERABLE:	YES
MOISTURE SENSITIVITY LEVEL:	MSL1 PER J-STD-020

G	92270	AUG 18,2020 REVISE NOTES	JNC	SAN
F	56988	SEP 24,2014 REVISE PERFORMANCE CHART	JNC	SN
E	54514	JUN 19,2014 ADD UL LOGO, ADD 56MM T&R	SJS	SAN
D	51884	JAN 08,2014 ADD DESIGN REF, UPDATE TITLE,	SJS	SAN
C	50290	OCT 08,2013 REVISE NOTE 1, 9 & OPERATING TEMP.	JNC	SN
B	48635	JUL 12,2013 MATCH TEXT FONTS & ADD NOTE 9	JNC	SN
A	46797	MAR 25,2013	JNC	SAN

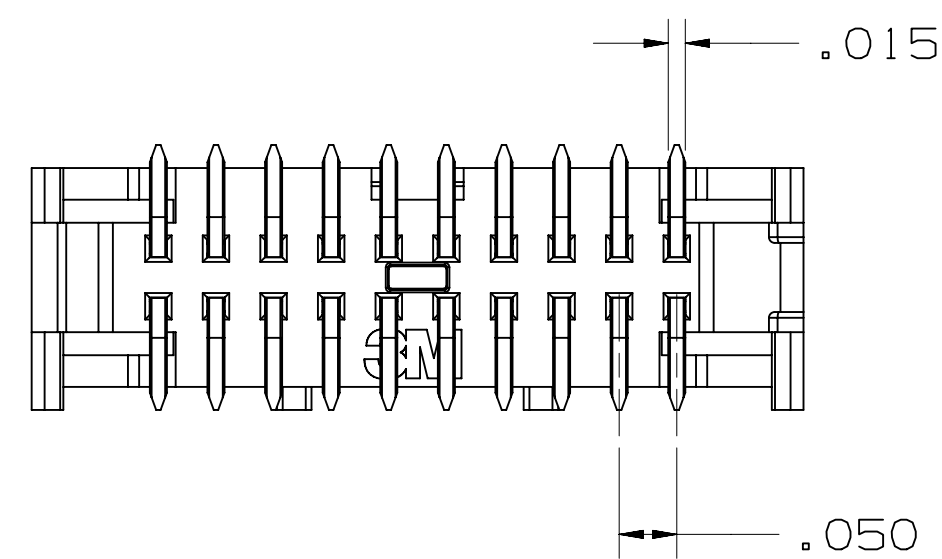
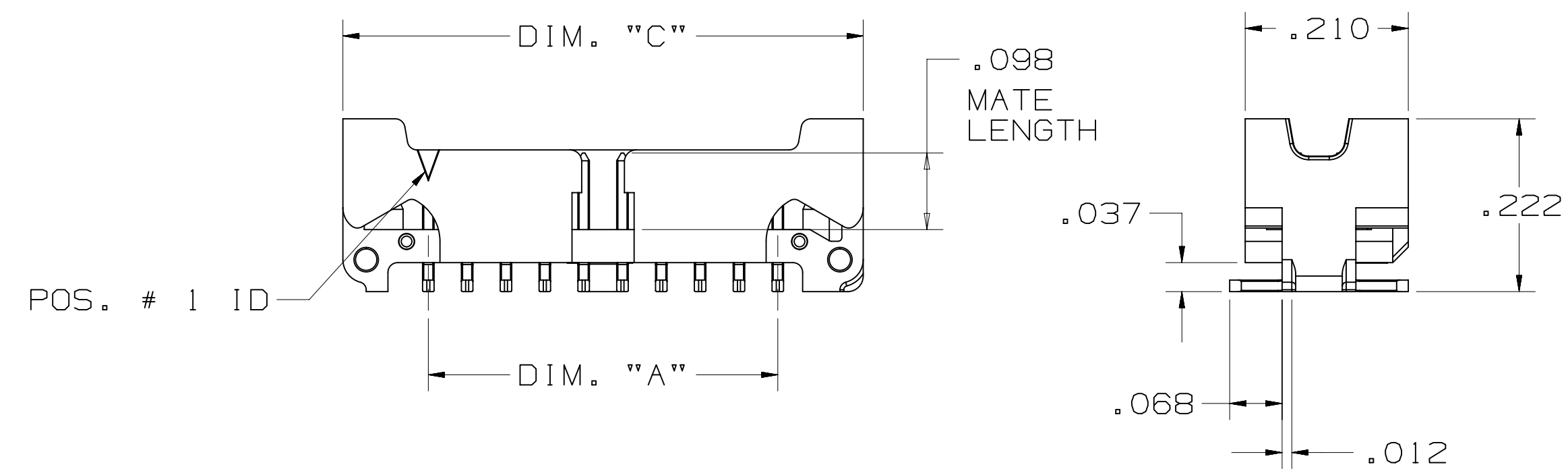
78-5100-2436-3		A 467/97		MAR 25, 2013		JNC		SIN							
78-5100-2396-9				PRODUCTION RELEASE											
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD						
ADDRESS CODES				DRFT	ARM	DATE NOV 29, 2012		MFG	PRC						
				CARGO	SAN	DATE NOV 29, 2012		MFG	SAN						
				CARGO	SAN	DATE NOV 29, 2012		MFG	SAN						
DIVISION		DIVISION CODE		 3M Center St. Paul, MN 55144 © 3M COPYRIGHT 2020 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		TOLERANCES EXCEPT AS NOTED													
SCALE 6 1		INCHES ±.0 ±.1 ±.00 ±.02 ±.000 ±.010 0.000 ±.0050													
THIRD ANGLE PROJECTION		MILLIMETERS ±.0 ±.1 ±.00 ±.02 ±.000 ±.010 0.000 ±.0050		TITLE		BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES									
INTERPRET PER ASME Y14.5 - 2018				CAGE NUMBER						SIZE		DRAWING NO.		REV.	
MAX. SURFACE ROUGHNESS ☒ MATERIAL SPECIFICATIONS ☒ MARKED ONLY		ANGLE		MODEL						452		D78-5100-2437-1		G	
				DET		TESTS		YES ☒ NO ☐		SHT 1 OF 6					

UL
UL FILE NO: E68080

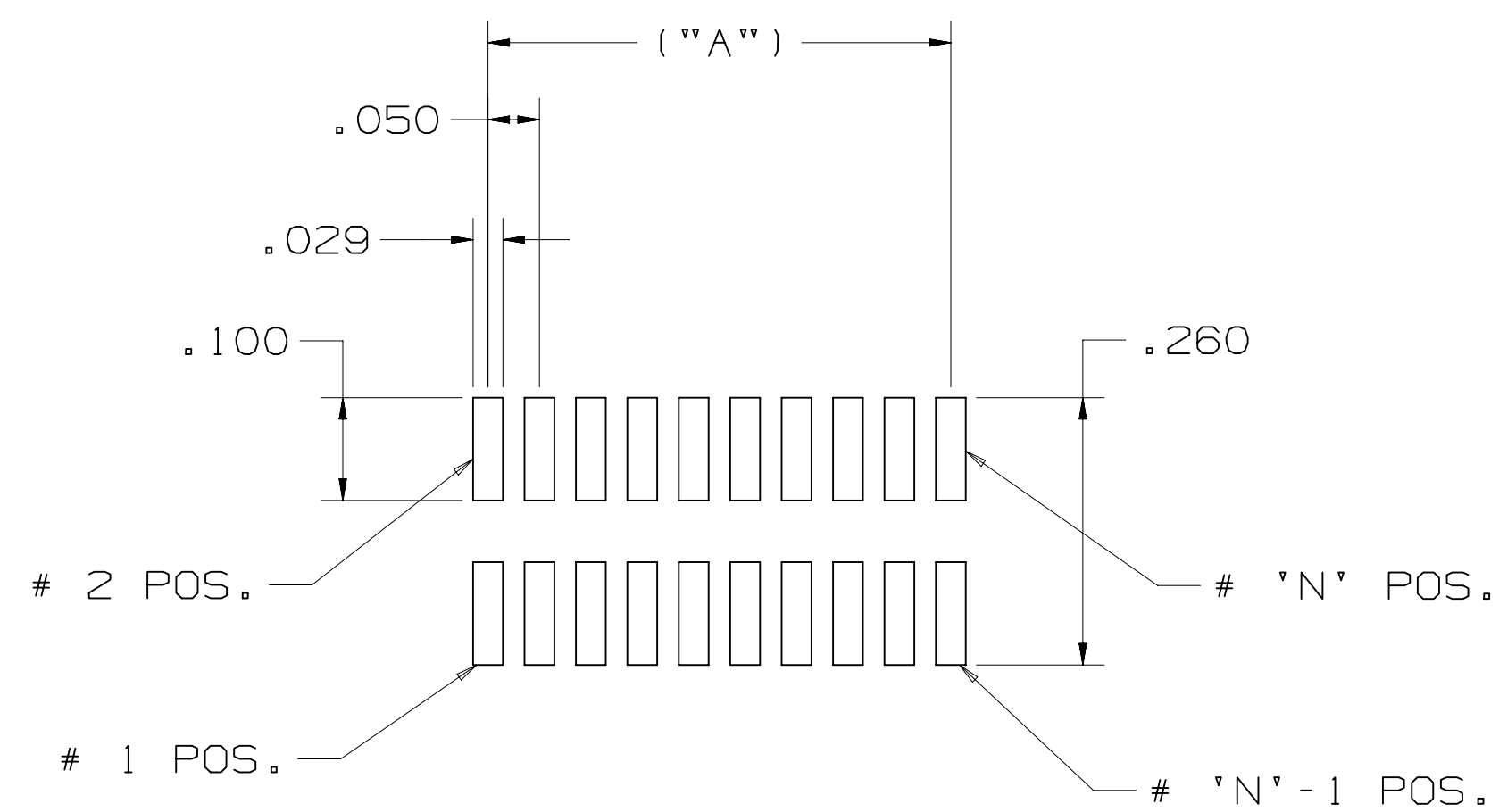
3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES



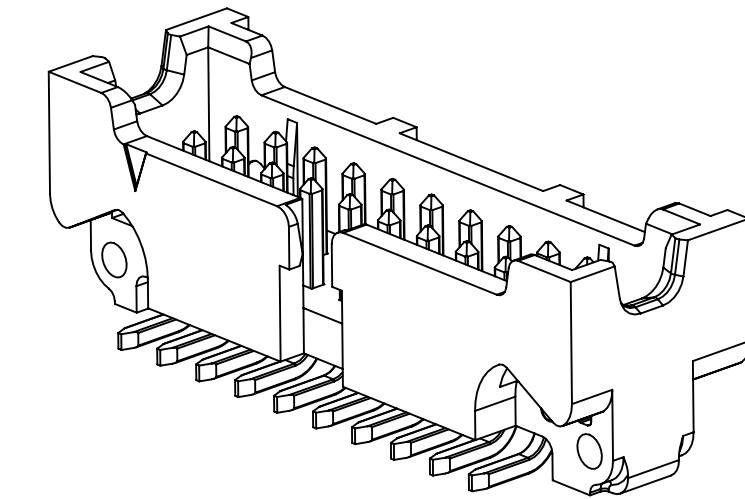
No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.215	.270
6	.100	.265	.320
8	.150	.315	.370
10	.200	.365	.420
12	.250	.415	.470
14	.300	.465	.520
16	.350	.515	.570
20	.450	.615	.670
30	.700	.865	.920



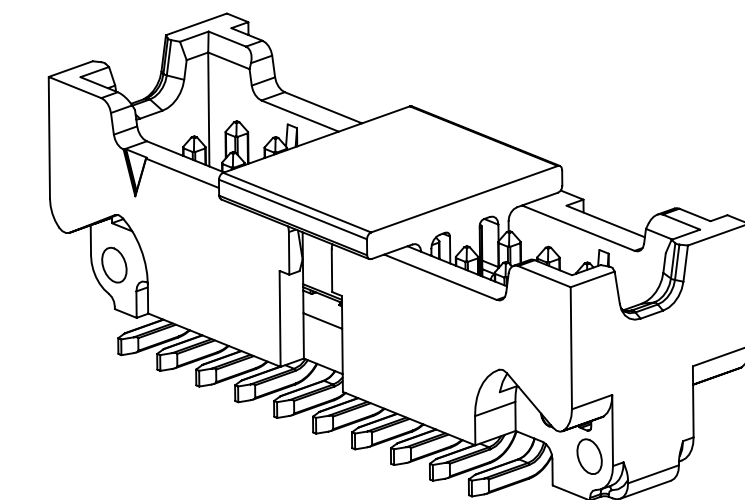
SURFACE MOUNT, VERTICAL



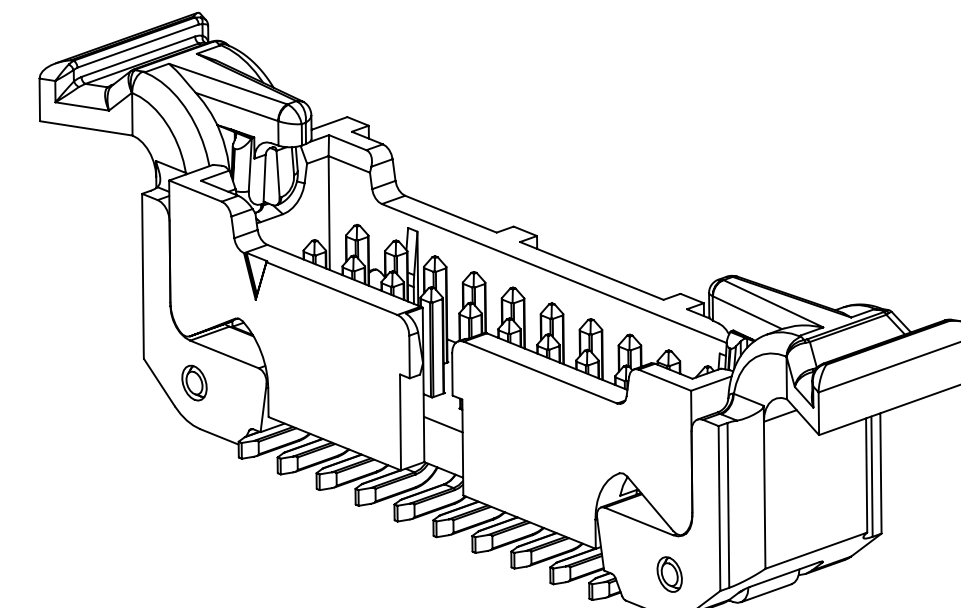
RECOMMENDED BOARD LAYOUT



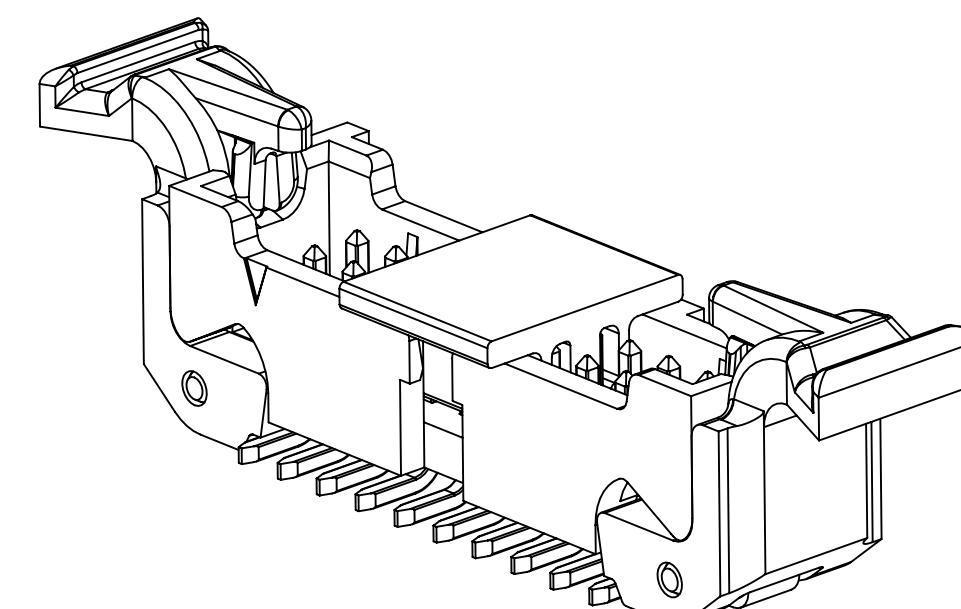
SHROUDED SMT HEADER



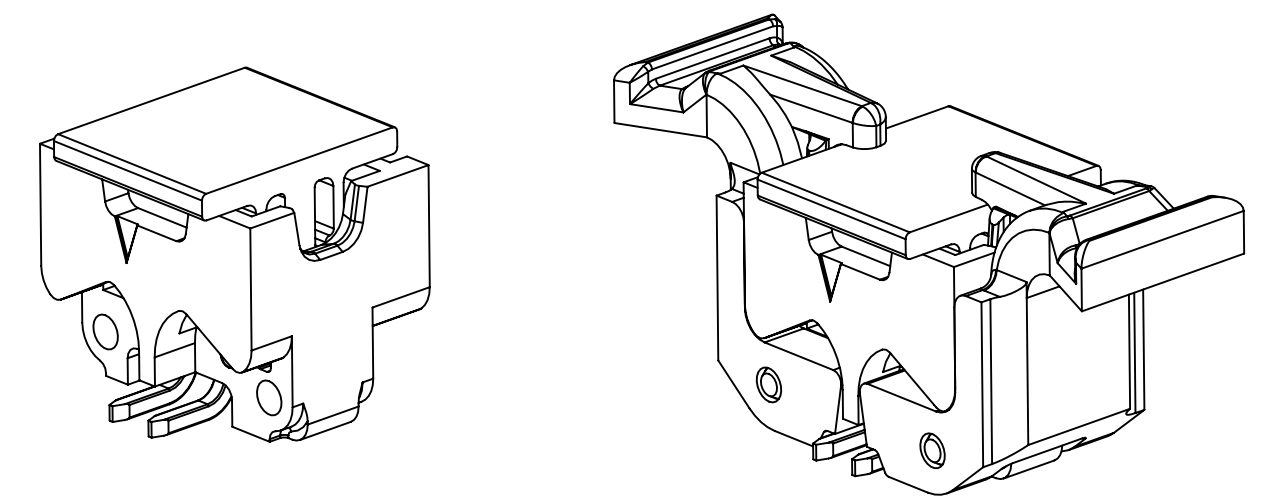
WITH VACUUM CAP



WITH LATCH/EJECT



WITH LATCH/EJECT
AND VACUUM CAP
VACUUM CAP IS FULLY SEATED
ON POSITIONS 8 THRU 30



VACUUM CAP SEATED ON TOP
EDGES OF END WALLS ON
POSITIONS 4 AND 6

78-5100-2436-3				MAR 25, 2013				JNC	SAN			
78-5100-2396-9				PRODUCTION RELEASE								
DESIGN REFERENCE NEXT ASSEMBLY				REV	ECO	ISSUE DATE AND DESCRIPTION				DRFT	CHKD	
ADDRES CODES				DRAFT ARM	DATE NOV 29, 2012	MFG PRC					DATE NOV 29, 2012	
				CNFD SAN	DATE NOV 29, 2012	APRNL SAN					DATE NOV 29, 2012	
DIVISION				DIVISION CODE								
DO NOT SCALE DRAWING SCALE $\frac{1}{1}$				TOLERANCES EXCEPT AS NOTED				© 3M COPYRIGHT 2020				
 THIRD ANGLE PROJECTION INTERPRET PER ASME Y14.5 - 2018				 St. Paul, MN 55144 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 0 ± .00 ± .000 ±				INCHES .0 ± .1 .00 ± .02 .000 ± .010 .0000 ± .0050				TITLE BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES				
MAX SURFACE ROUGHNESS R _{max} SURFACES ☒ MARKED ONLY				CAGE NUMBER D 78-5100-2437-1				DRAWING NO.				REV. G
MODEL 452				DET. ISIS				YES ☒ NO ☐				SHT 3 OF 4

3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES

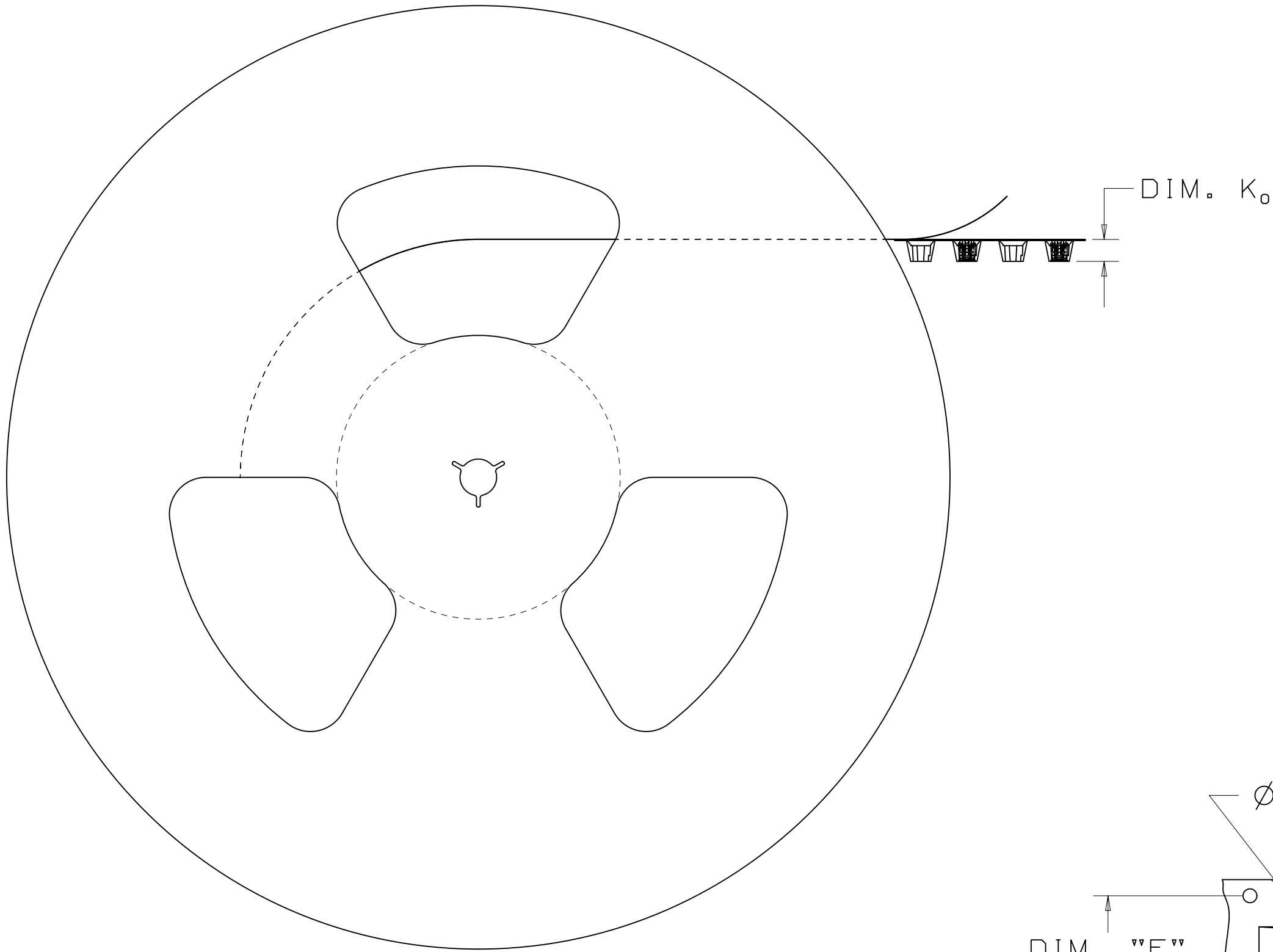
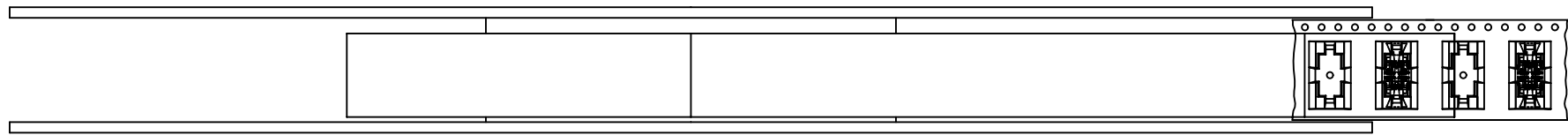


TABLE 2
TAPE AND REEL PACKAGING FOR SURFACEMOUNT HEADERS

POS	LATCHES	DIM. "F"	DIM. K ₀	DIM. S ₀	DIM. "W"
4	NO	.453	.263	.876	.945 [24MM]
4	YES	.453	.300	.876	1.260 [32MM]
6	NO	.453	.238	.876	.945 [24MM]
6	YES	.559	.300	1.118	1.260 [32MM]
8	NO	.453	.238	.876	.945 [24MM]
8	YES	.559	.300	1.118	1.732 [44MM]
10	NO	.453	.238	.876	.945 [24MM]
10	YES	.559	.300	1.118	1.732 [44MM]
12	NO	.453	.238	.876	.945 [24MM]
12	YES	.559	.300	1.118	1.732 [44MM]
14	NO	.453	.238	.876	.945 [24MM]
14	YES	.795	.300	1.591	1.732 [44MM]
16	NO	.453	.238	.876	.945 [24MM]
16	YES	.795	.300	1.591	1.732 [44MM]
20	NO	.559	.238	1.118	1.260 [32MM]
20	YES	.795	.300	1.591	1.732 [44MM]
30	NO	.795	.238	1.591	1.732 [44MM]
30	YES	.795	.300	1.591	2.205 [56MM]

NOTE:
LATCH EJECT HEADERS ARE PACKAGED WITH THE LATCHES
IN AN OPEN POSITION.

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

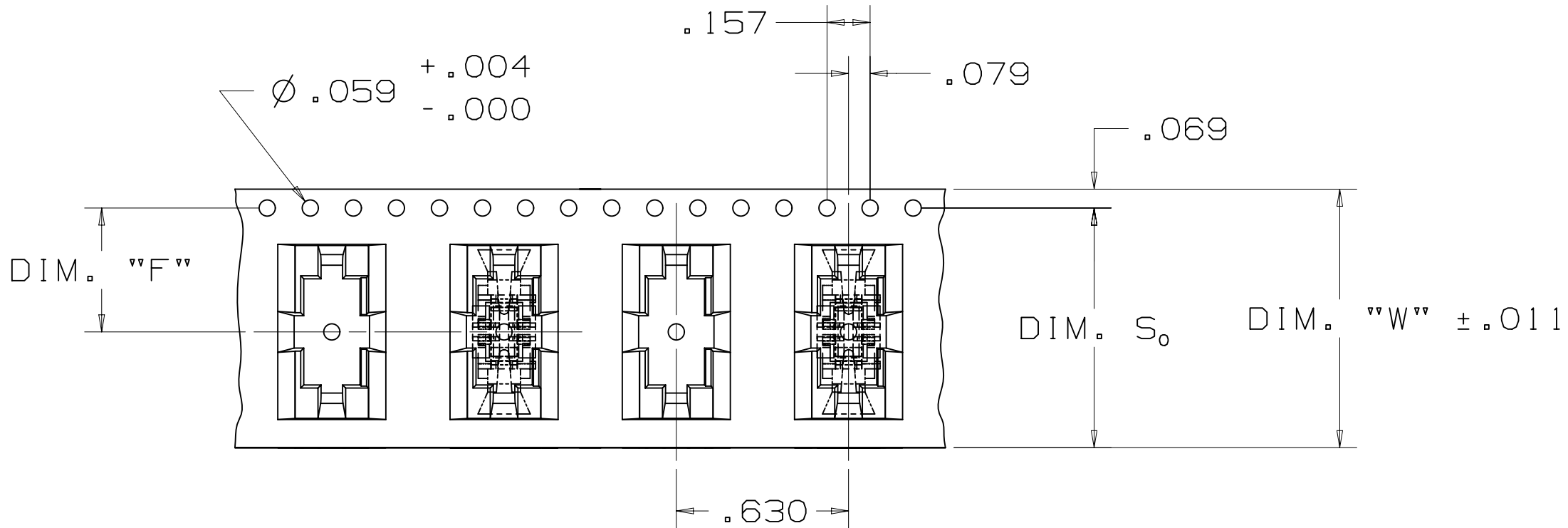
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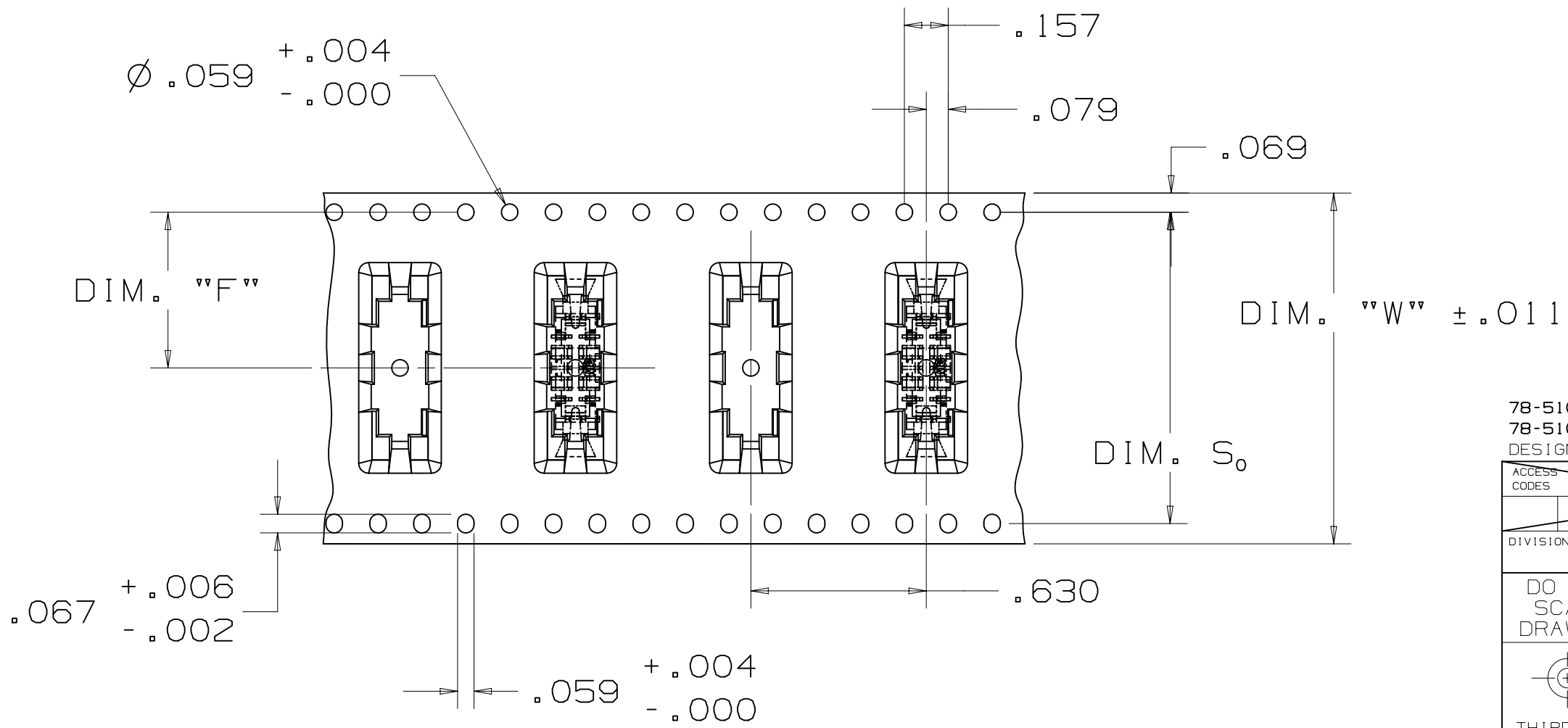
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24MM WIDE POCKET TAPE



32MM, 44MM AND 56MM WIDE POCKET TAPE

78-5100-2436-3 78-5100-2396-9		DESIGN REFERENCE		NEXT ASSEMBLY	
DIVISION		EMSD		DIVISION CODE	
DO NOT SCALE DRAWING		SCALE 1		TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS	
MAX. SURFACE ROUGHNESS		SURFACES		MARKED ONLY	
CAGE NUMBER		SIZE		DRAWING NO.	
MODEL		452		REV. G	
DATE		NOV 29, 2012		DATE	
REV. A		ECO		ISSUE DATE AND DESCRIPTION	
REV. F		ECO		REVISE NOTES	
REV. E		ECO		REVISE PERFORMANCE CHART	
REV. D		ECO		ADD UL LOGO, ADD 56MM T&R	
REV. C		ECO		JAN 08, 2014 ADD DESIGN REF, UPDATE TITLE,	
REV. B		ECO		OCT 08, 2013 REVISE NOTE 1, 9 & ADD NOTE 9	
REV. A		ECO		JUL 12, 2013 MATCH TEXT FONTS & ADD NOTE 9	
REV. G		ECO		MAR 25, 2013 PRODUCTION RELEASE	
REV. H		ECO		AUG 18, 2020 REVISE NOTES	
REV. I		ECO		SEP 24, 2014 REVISE PERFORMANCE CHART	
REV. J		ECO		JUN 19, 2014 ADD UL LOGO, ADD 56MM T&R	
REV. K		ECO		JAN 08, 2014 ADD DESIGN REF, UPDATE TITLE,	
REV. L		ECO		OCT 08, 2013 REVISE NOTE 1, 9 & ADD NOTE 9	
REV. M		ECO		JUL 12, 2013 MATCH TEXT FONTS & ADD NOTE 9	
REV. N		ECO		MAR 25, 2013 PRODUCTION RELEASE	
REV. O		ECO		AUG 18, 2020 REVISE NOTES	
REV. P		ECO		SEP 24, 2014 REVISE PERFORMANCE CHART	
REV. Q		ECO		JUN 19, 2014 ADD UL LOGO, ADD 56MM T&R	
REV. R		ECO		JAN 08, 2014 ADD DESIGN REF, UPDATE TITLE,	
REV. S		ECO		OCT 08, 2013 REVISE NOTE 1, 9 & ADD NOTE 9	
REV. T		ECO		JUL 12, 2013 MATCH TEXT FONTS & ADD NOTE 9	
REV. U		ECO		MAR 25, 2013 PRODUCTION RELEASE	
REV. V		ECO		AUG 18, 2020 REVISE NOTES	
REV. W		ECO		SEP 24, 2014 REVISE PERFORMANCE CHART	
REV. X		ECO		JUN 19, 2014 ADD UL LOGO, ADD 56MM T&R	
REV. Y		ECO		JAN 08, 2014 ADD DESIGN REF, UPDATE TITLE,	
REV. Z		ECO		OCT 08, 2013 REVISE NOTE 1, 9 & ADD NOTE 9	
REV. AA		ECO		JUL 12, 2013 MATCH TEXT FONTS & ADD NOTE 9	
REV. AB		ECO		MAR 25, 2013 PRODUCTION RELEASE	
REV. AC		ECO		AUG 18, 2020 REVISE NOTES	
REV. AD		ECO		SEP 24, 2014 REVISE PERFORMANCE CHART	
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REV. AI		ECO		MAR 25, 2013 PRODUCTION RELEASE	
REV. AJ		ECO		AUG 18, 2020 REVISE NOTES	
REV. AK		ECO		SEP 24, 2014 REVISE PERFORMANCE CHART	
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REV. AP		ECO		MAR 25, 2013 PRODUCTION RELEASE	
REV. AQ		ECO		AUG 18, 2020 REVISE NOTES	
REV. AR		ECO		SEP 24, 2014 REVISE PERFORMANCE CHART	
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REV. AX		ECO		AUG 18, 2020 REVISE NOTES	
REV. AY		ECO		SEP 24, 2014 REVISE PERFORMANCE CHART	
REV. AZ		ECO		JUN 19, 2014 ADD UL LOGO, ADD 56MM T&R	
REV. BA		ECO		JAN 08, 2014 ADD DESIGN REF, UPDATE TITLE,	
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REV. BI		ECO		OCT 08, 2013 REVISE NOTE 1, 9 & ADD NOTE 9	
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REV. BK		ECO		MAR 25, 2013 PRODUCTION RELEASE	
REV. BL		ECO		AUG 18, 2020 REVISE NOTES	
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REV. BP		ECO		OCT 08, 2013 REVISE NOTE 1, 9 & ADD NOTE 9	
REV. BQ		ECO		JUL 12, 2013 MATCH TEXT FONTS & ADD NOTE 9	
REV. BR		ECO		MAR 25, 2013 PRODUCTION RELEASE	
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REV. BT		ECO		SEP 24, 2014 REVISE PERFORMANCE CHART	
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REV. BV		ECO		AUG 18, 2020 REVISE NOTES	
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REV. BV		ECO		JUN 19, 2014 ADD UL LOGO, ADD 56MM T&R	
REV. BV		ECO		JAN 08, 2014 ADD DESIGN REF, UPDATE TITLE,	
REV. BV		ECO		OCT 08, 2013 REVISE NOTE 1, 9 & ADD NOTE 9	
REV. BV		ECO		JUL 12, 2013 MATCH TEXT FONTS & ADD NOTE 9	
REV. BV		ECO		MAR 25, 2013 PRODUCTION RELEASE	
REV. BV		ECO		AUG 18, 2020 REVISE NOTES	
REV. BV		ECO		SEP 24, 2014 REVISE PERFORMANCE CHART	
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REV. BV		ECO		OCT 08, 2013 REVISE NOTE 1, 9 & ADD NOTE 9	
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REV. BV		ECO		SEP 24, 2014 REVISE PERFORMANCE CHART	
REV. BV		ECO		JUN 19, 2014 ADD UL LOGO, ADD 56MM T&R	
REV. BV		ECO		JAN 08, 2014 ADD DESIGN REF, UPDATE TITLE,	
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