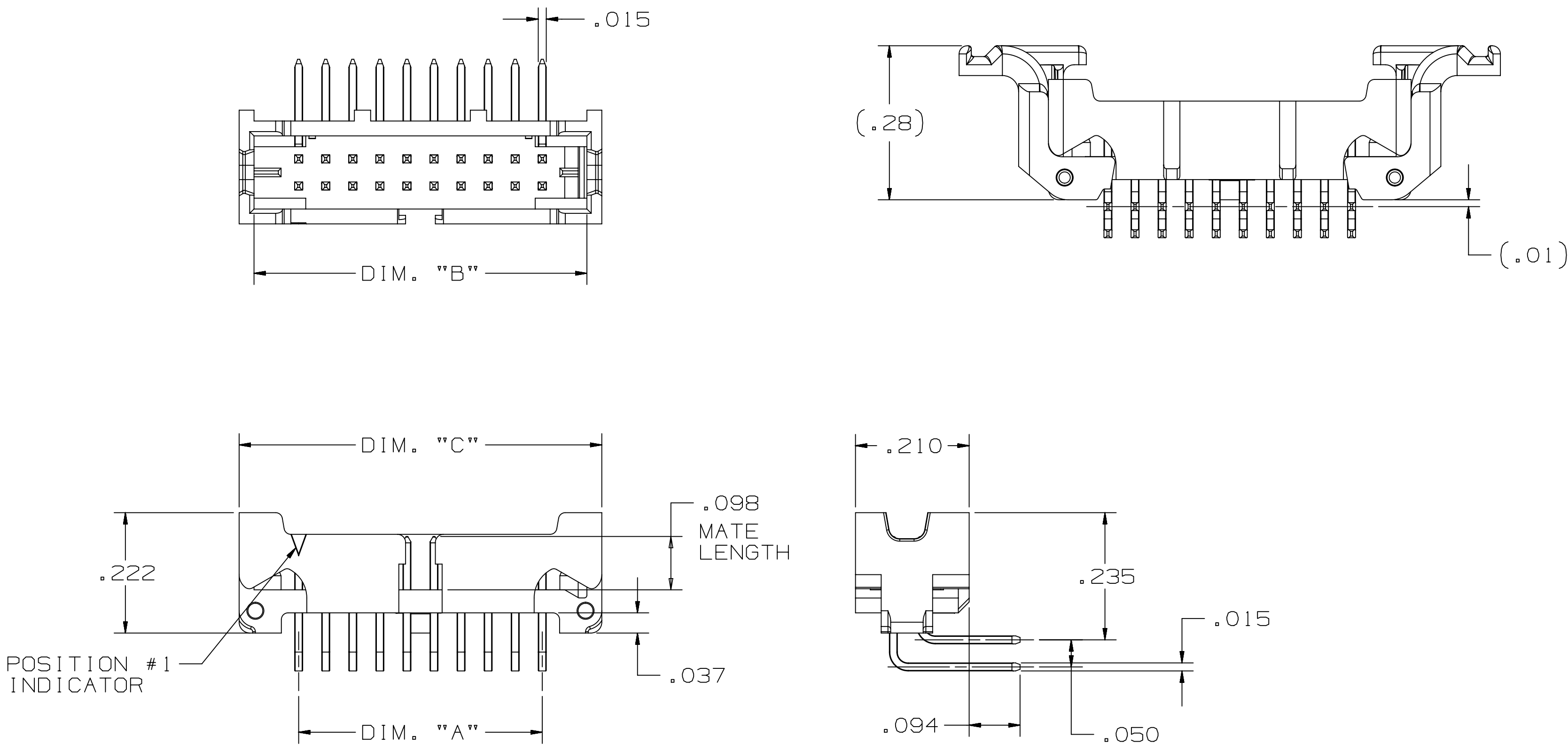
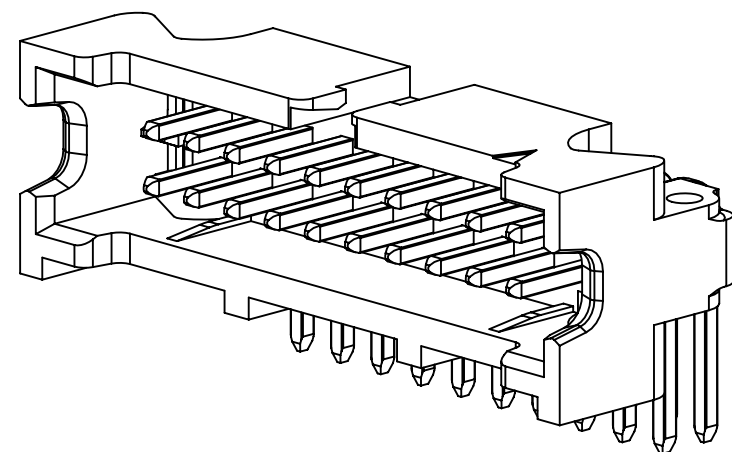


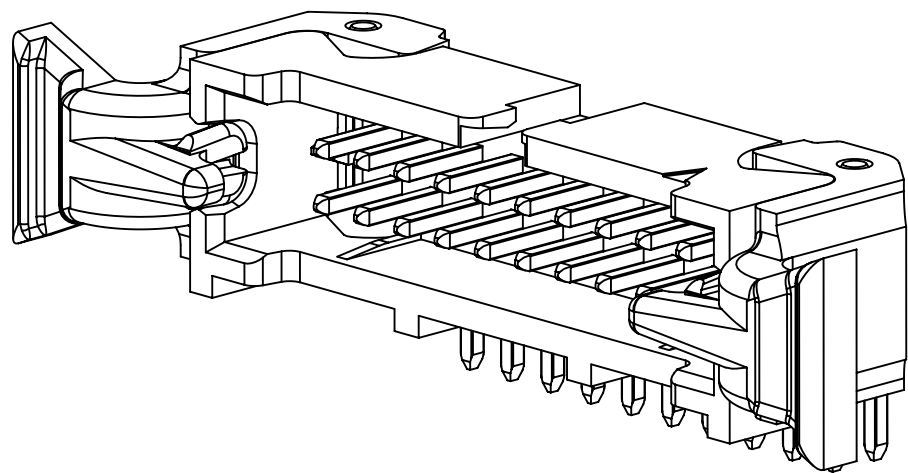
3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES



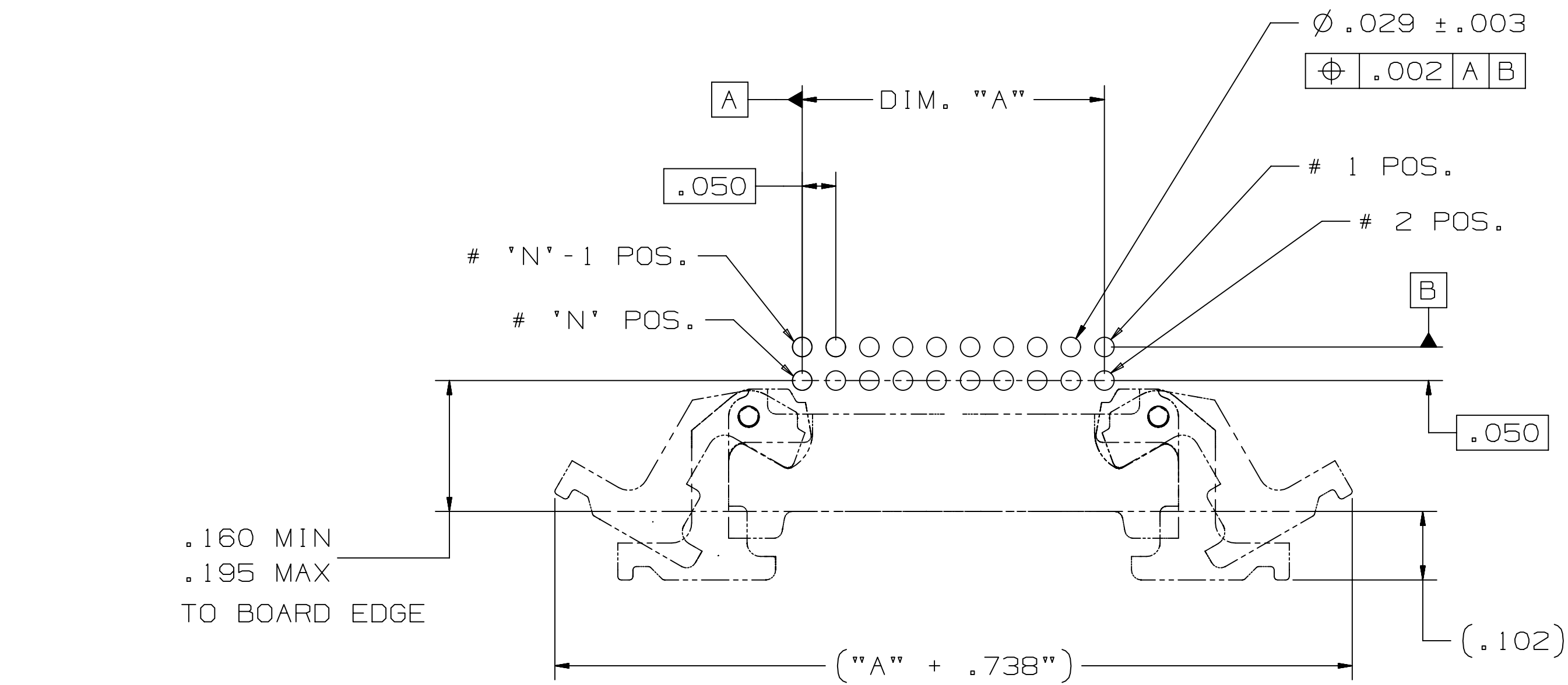
THRU BOARD, RIGHT ANGLE



WITHOUT LATCH/EHECT



WITH LATCH/EJECT



RECOMMENDED BOARD LAYOUT

TABLE 1: RIGHT ANGLE THRU

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
26	.600	.765	.820
30	.700	.865	.920
40	.950	1.115	1.170
50	1.200	1.365	1.420

78-5100-2436-3
78-5100-2396-9

DESIGN REFERENCE

NEXT ASSEMBLY

DO NOT SCALE DRAWING

SCALE 6 1

TOLERANCES EXCEPT AS NOTED

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2018

MAX. SURFACE ROUGHNESS

INCHES

0 ± .1

.00 ± .02

.000 ± .010

.0000 ± .0050

MILLIMETERS

0 ±

.00 ±

.000 ±

ANGLES

3M

3M Center St. Paul, MN 55144

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TITLE

SHROUDED BMT HEADER, .05 X .05 PITCH, L/E, 452 SERIES

CAGE NUMBER

SIZE

DRAWING NO.

REV.

MODEL

452

LISTS

YES

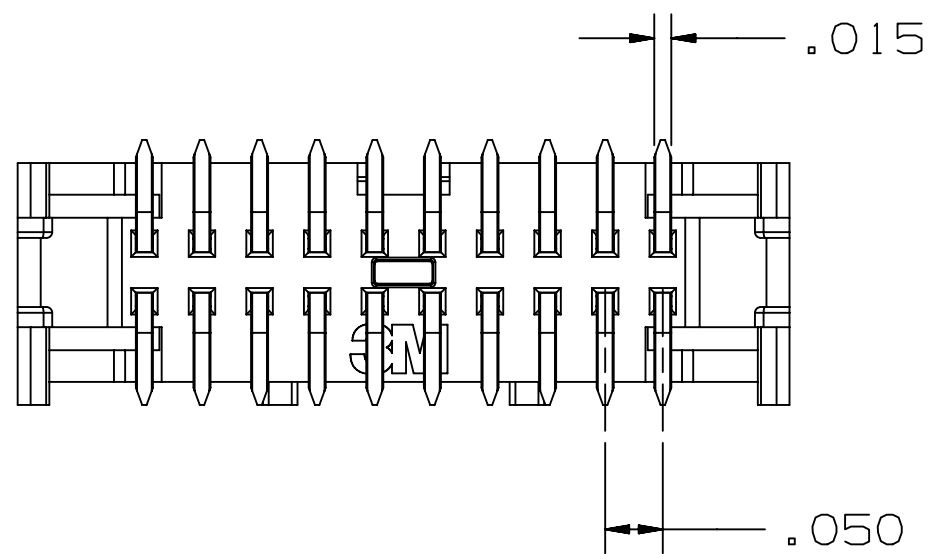
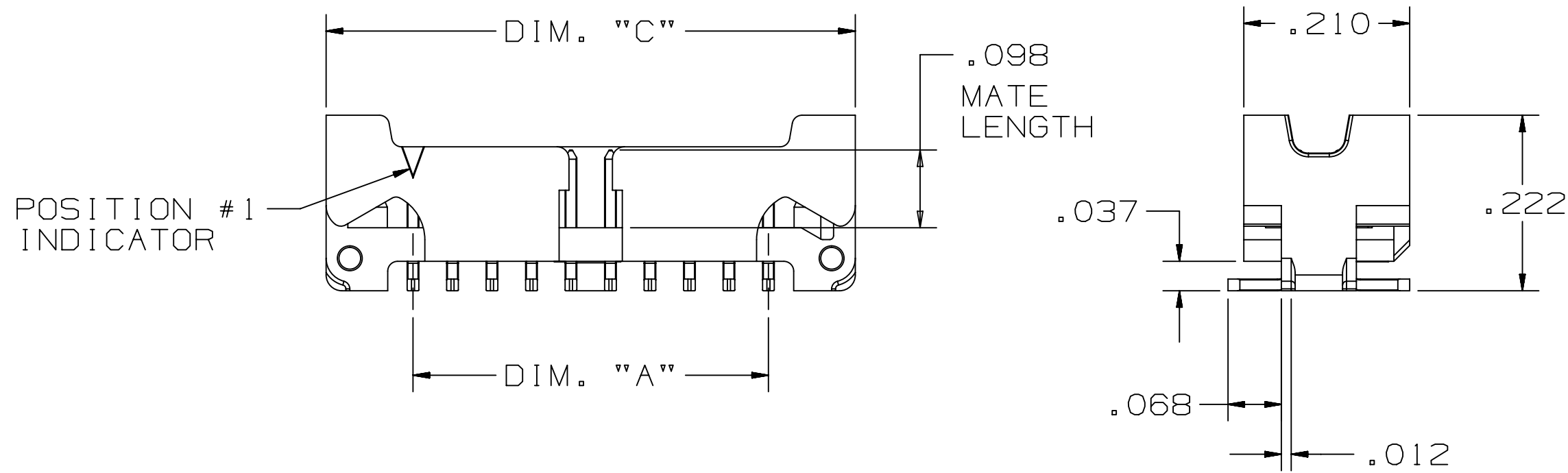
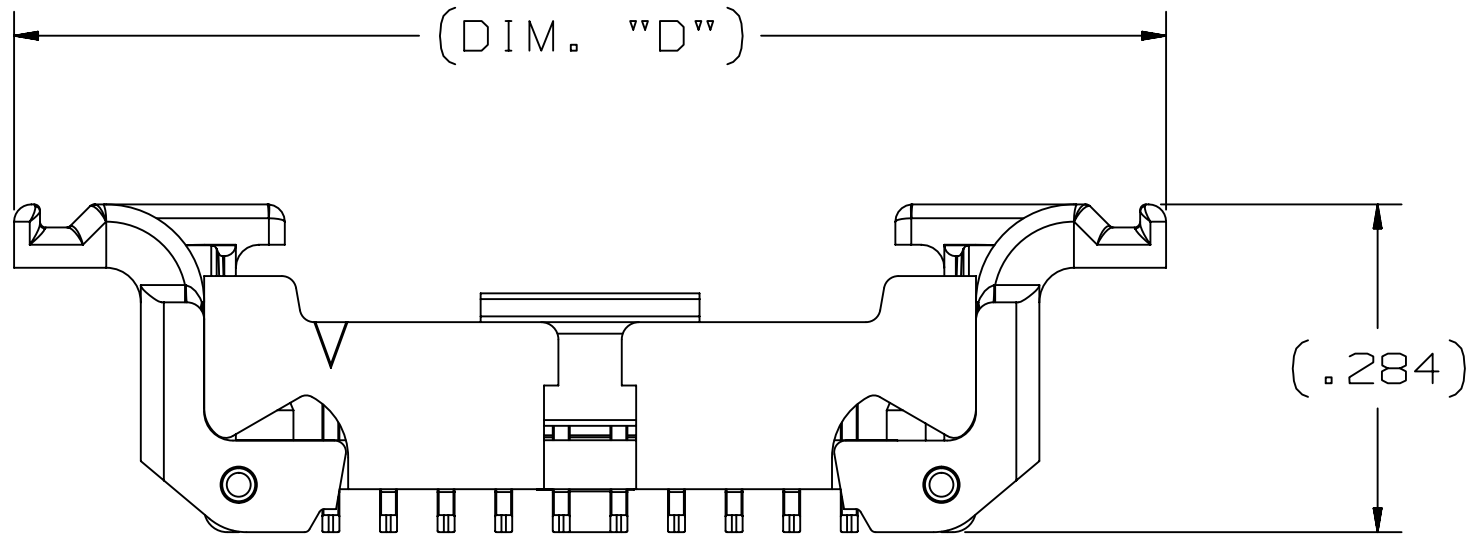
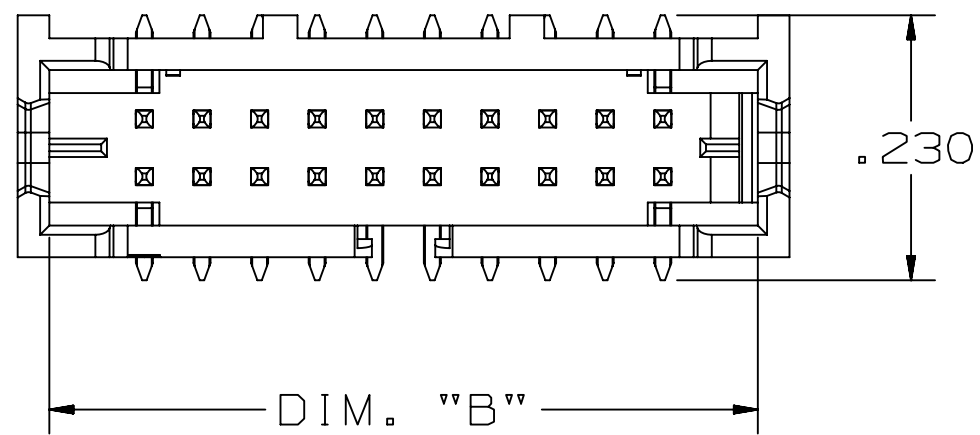
NO

SHT 2 OF 5

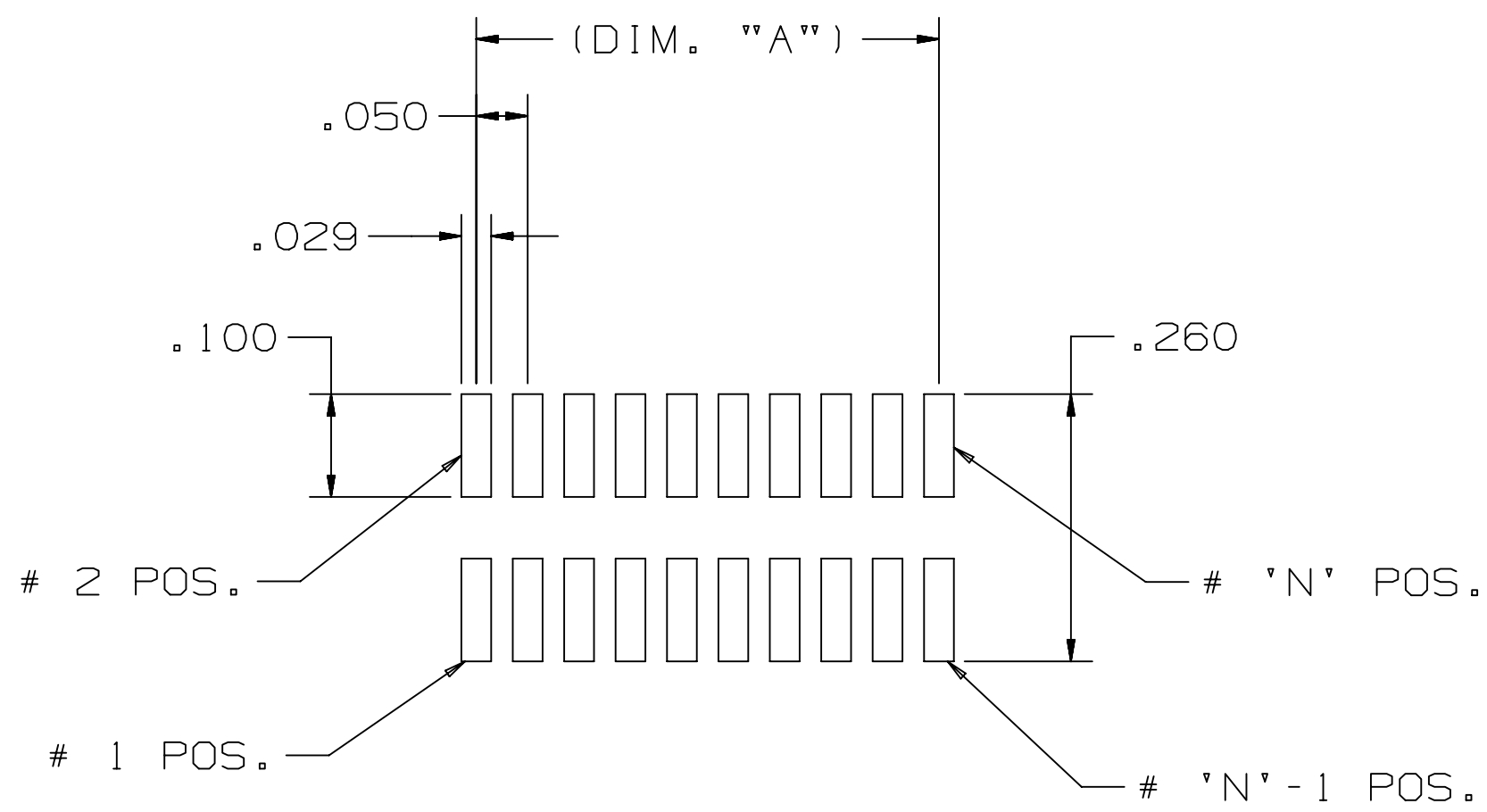
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ARM	NOV 29, 2012	PRC	NOV 29, 2012	
CHKD	NOV 29, 2012	APPR	NOV 29, 2012	
SAN		SAN		

J	105041	MAY 26, 2022	JNC	SAN
H	100200	OCT 19, 2021	JNC	SAN
G	92270	AUG 18, 2020	JNC	SAN
F	56988	SEP 24, 2014	JNC	SN
E	54514	JUN 19, 2014	SJS	SAN
D	51884	JAN 08, 2014	SJS	SAN
C	50290	OCT 08, 2013	JNC	SN
B	48635	JUL 12, 2013	JNC	SN
A	46797	MAR 25, 2013	JNC	SAN

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

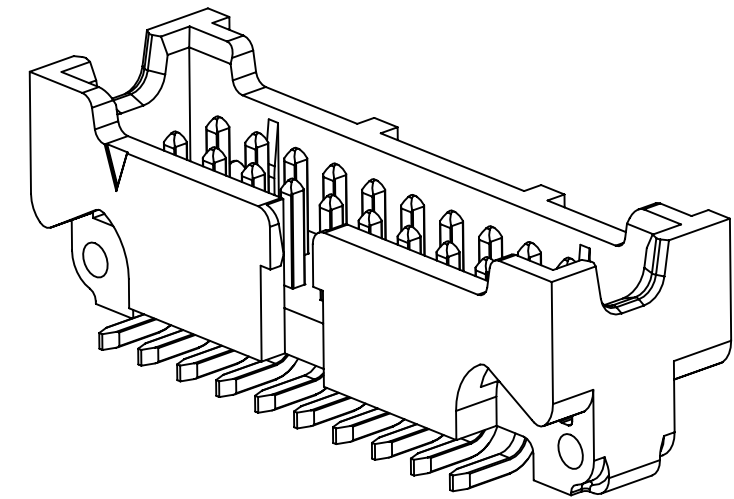


SURFACE MOUNT, VERTICAL

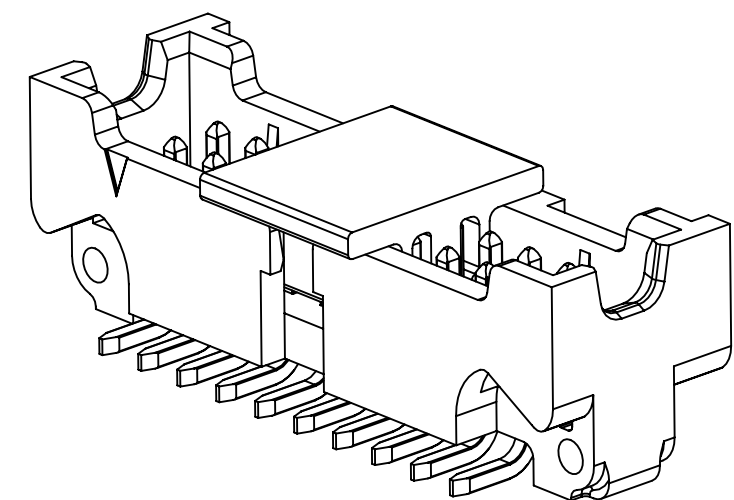


RECOMMENDED BOARD LAYOUT

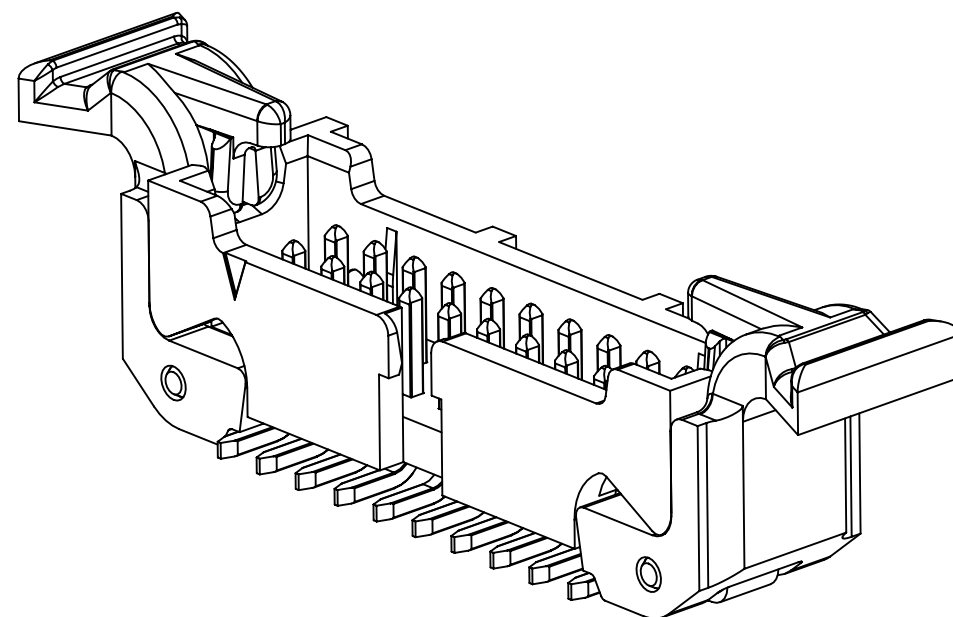
TABLE 1: VERTICAL SMT				
No. Positions	Dim "A"	Dim "B"	Dim "C"	Dim "D"
4	.050	.215	.270	.600
6	.100	.265	.320	.650
8	.150	.315	.370	.700
10	.200	.365	.420	.750
12	.250	.415	.470	.800
14	.300	.465	.520	.850
16	.350	.515	.570	.900
20	.450	.615	.670	1.000
26	.600	.765	.820	1.150
30	.700	.865	.920	1.250
40	.950	1.115	1.170	1.500
50	1.200	1.365	1.420	1.750



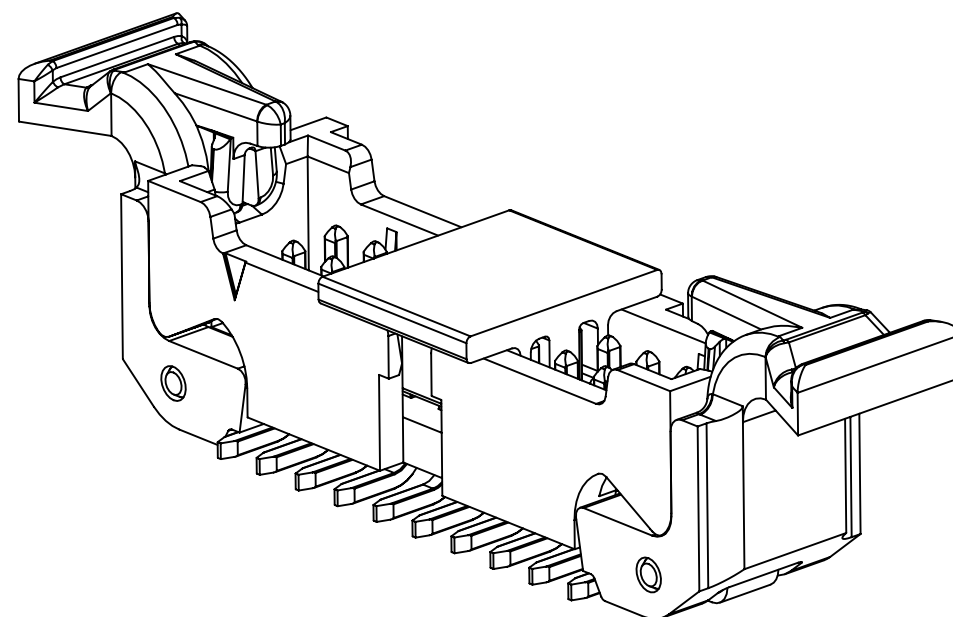
SHROUDED SMT HEADER



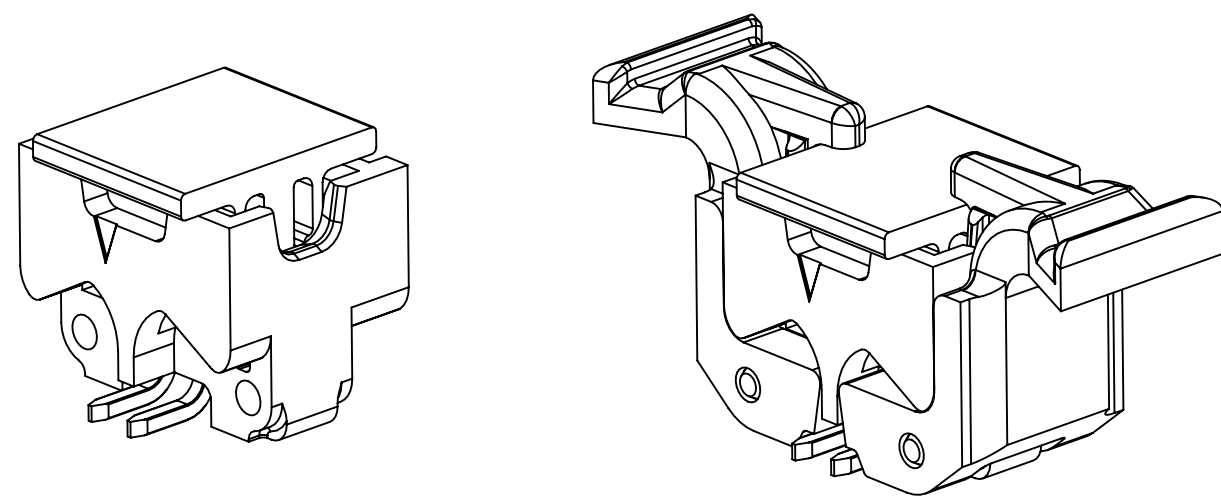
WITH VACUUM CAP



WITH LATCH/EJECT



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



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

78-5100-2436-3 78-5100-2396-9		NEXT ASSEMBLY		REV	ECO	PRODUCTION RELEASE		DRFT	CHKD
DESIGN REFERENCE		NEXT ASSEMBLY		DATE	DATE	DATE		DATE	DATE
ACCESS CODES		ACCESS CODES		DRFT AFM	PRC	MFG PRC		NOV 29,2012	NOV 29,2012
				CHKD SAN		DATE NOV 29,2012		APPRV SAN	DATE NOV 29,2012
DIVISION		DIVISION CODE		3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2022 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					
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2018		INCHES .00 ±.1 .00 ±.02 .0000 ±.010 .0000 ±.0050					
MAX. SURFACE ROUGHNESS		ALL SURFACES		MILLIMETERS 0 ± .0 ± .00 ± .000 ±		TITLE		SHROUDED BMT HEADER, .05 X .05 PITCH, L/E, 452 SERIES	
✓ MARKED ONLY		✓ MARKED ONLY		ANGLES ±		CAGE NUMBER		SIZE DRAWING NO.	
						D 78-5100-2437-1		REV	
				MODEL 452		DELTS		YES YES NO	
								SHT 3 OF	

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

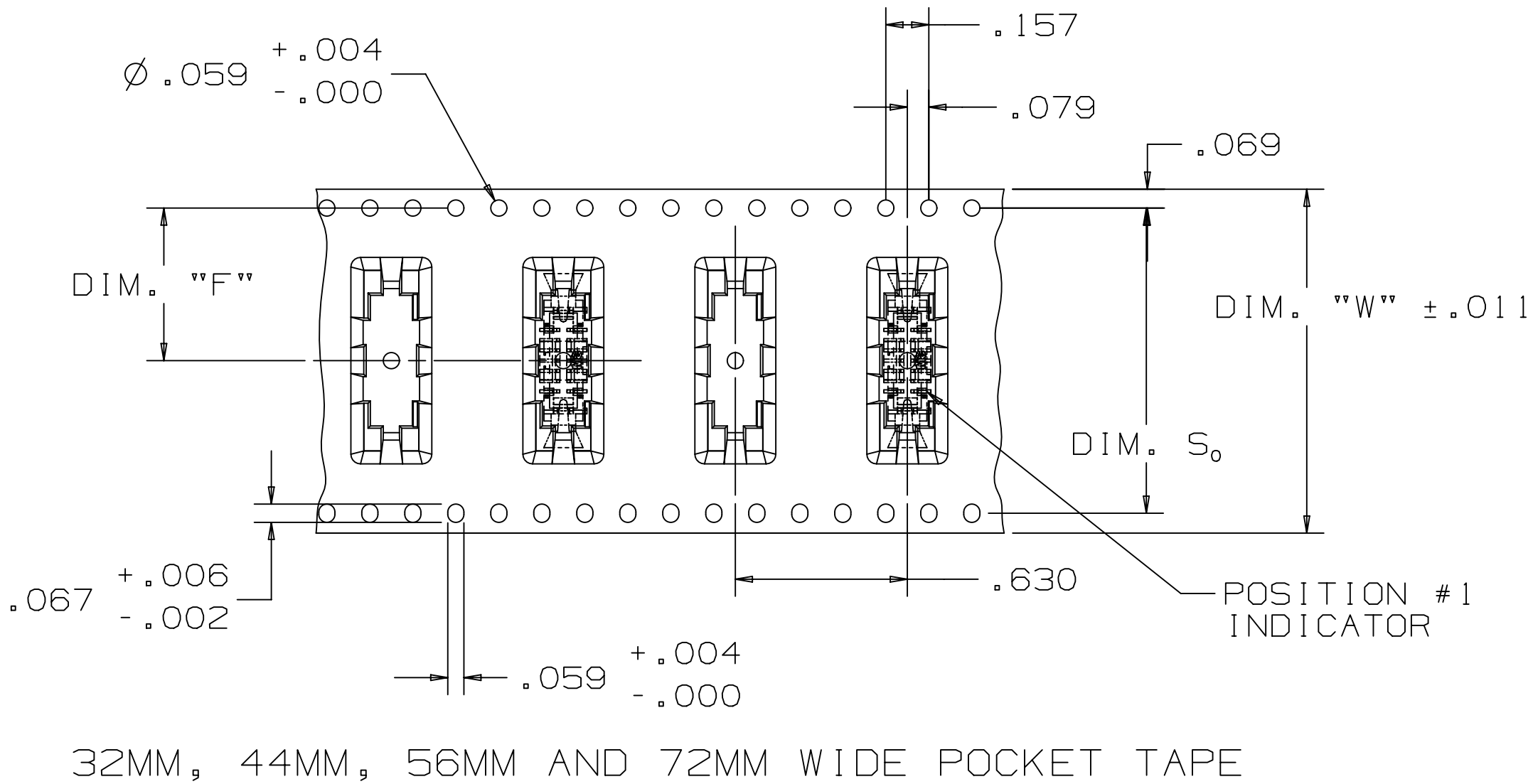
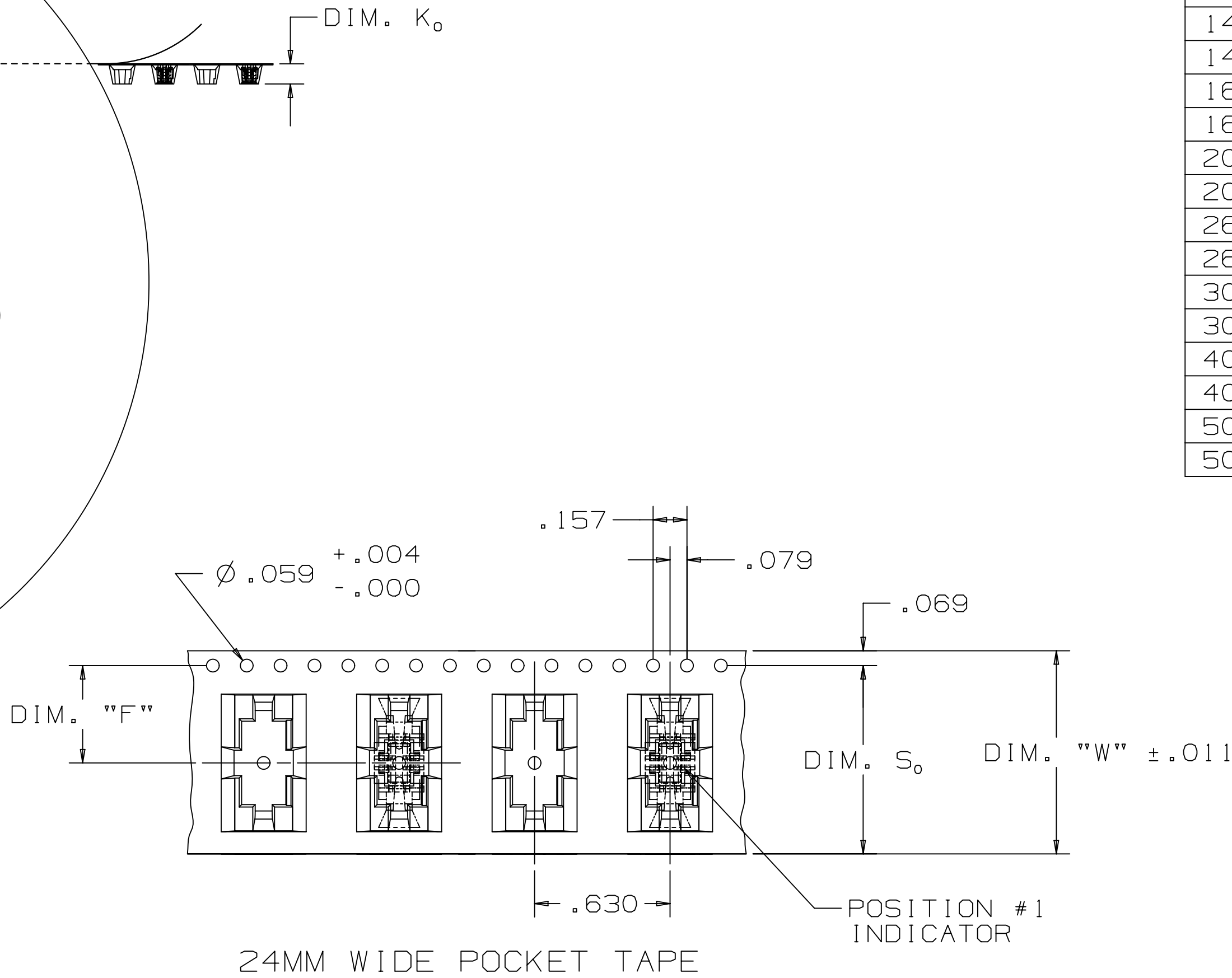
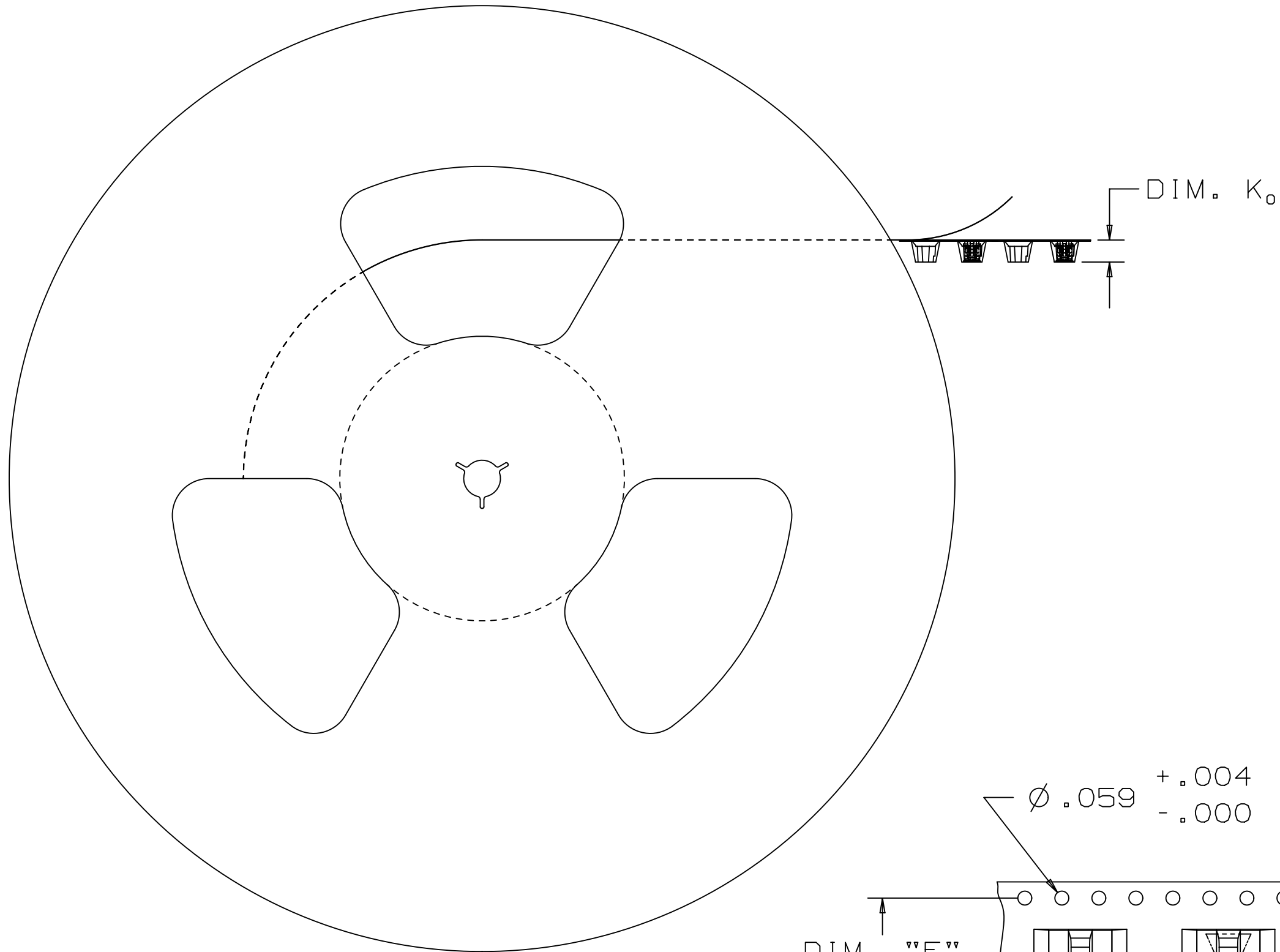
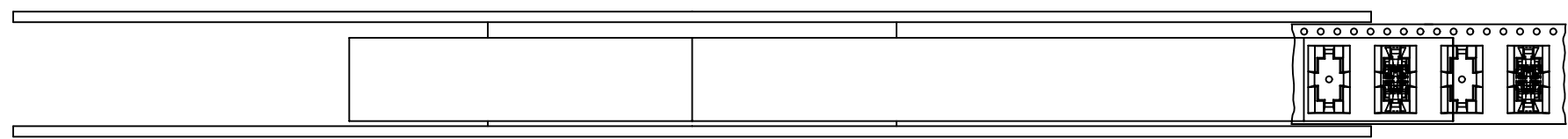


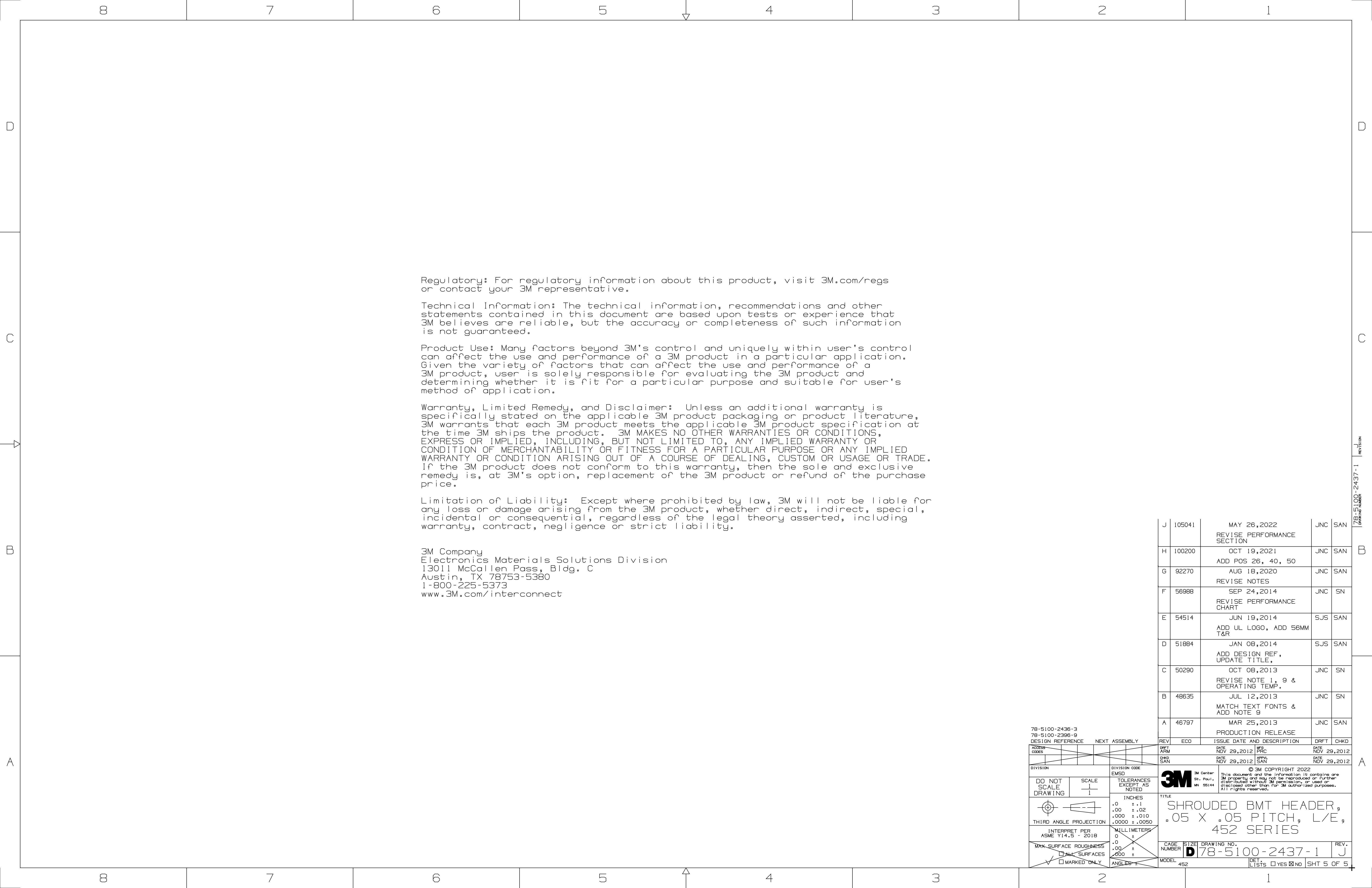
TABLE 2
TAPE AND REEL PACKAGING FOR SURFACEMOUNT HEADERS

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]
26	NO	.795	.254	1.594	1.732 [44MM]
26	YES	1.031	.288	2.067	2.205 [56MM]
30	NO	.795	.238	1.591	1.732 [44MM]
30	YES	.795	.300	1.591	2.205 [56MM]
40	NO	1.031	.254	2.067	2.205 [56MM]
40	YES	1.031	.288	2.067	2.205 [56MM]
50	NO	1.031	.254	2.067	2.205 [56MM]
50	YES	1.346	.288	2.693	2.835 [72MM]

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

78-5100-2436-3 78-5100-2396-9		NEXT ASSEMBLY	
DESIGN REFERENCE		NEXT ASSEMBLY	
DESIGN CODES	DESIGN CODES	DESIGN CODES	DESIGN CODES
DIVISION	DIVISION	DIVISION	DIVISION
DO NOT SCALE DRAWING	SCALE 1	TOLERANCES EXCEPT AS NOTED	TOLERANCES EXCEPT AS NOTED
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS	MILLIMETERS
MAX. SURFACE ROUGHNESS	ALL SURFACES	MARKED ONLY	MARKED ONLY

J	105041	MAY 26, 2022	JNC	SAN
H	100200	OCT 19, 2021	JNC	SAN
G	92270	AUG 18, 2020	JNC	SAN
F	56988	SEP 24, 2014	JNC	SN
E	54514	JUN 19, 2014	SJS	SAN
D	51884	JAN 08, 2014	SJS	SAN
C	50290	OCT 08, 2013	JNC	SN
B	48635	JUL 12, 2013	JNC	SN
A	46797	MAR 25, 2013	JNC	SAN
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ARM	NOV 29, 2012	PRC	NOV 29, 2012	NOV 29, 2012
CHKD	NOV 29, 2012	APPL	NOV 29, 2012	NOV 29, 2012
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TITLE SHROUDED BMT HEADER, .05 X .05 PITCH, L/E, 452 SERIES				
CAGE NUMBER	SIZE NUMBER	DRAWING NO. 78-5100-2437-1		REV. J
MODEL	452	LISTS		YES ☒ NO ☐ SHT 4 OF 5



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J	105041	MAY 26,2022	JNC	SAN
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DRFT	ARM	DATE NOV 29,2012	PRC	DATE NOV 29,2012
CHKD	SAN	DATE NOV 29,2012	APPR	DATE NOV 29,2012
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TITLE				
SHROUDED BMT HEADER,				
.05 X .05 PITCH, L/E,				
452 SERIES				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D		78-5100-2437-1	J	
MODEL	452	DET	LISTS	YES ☐ NO ☒
SHT 5 OF 5				