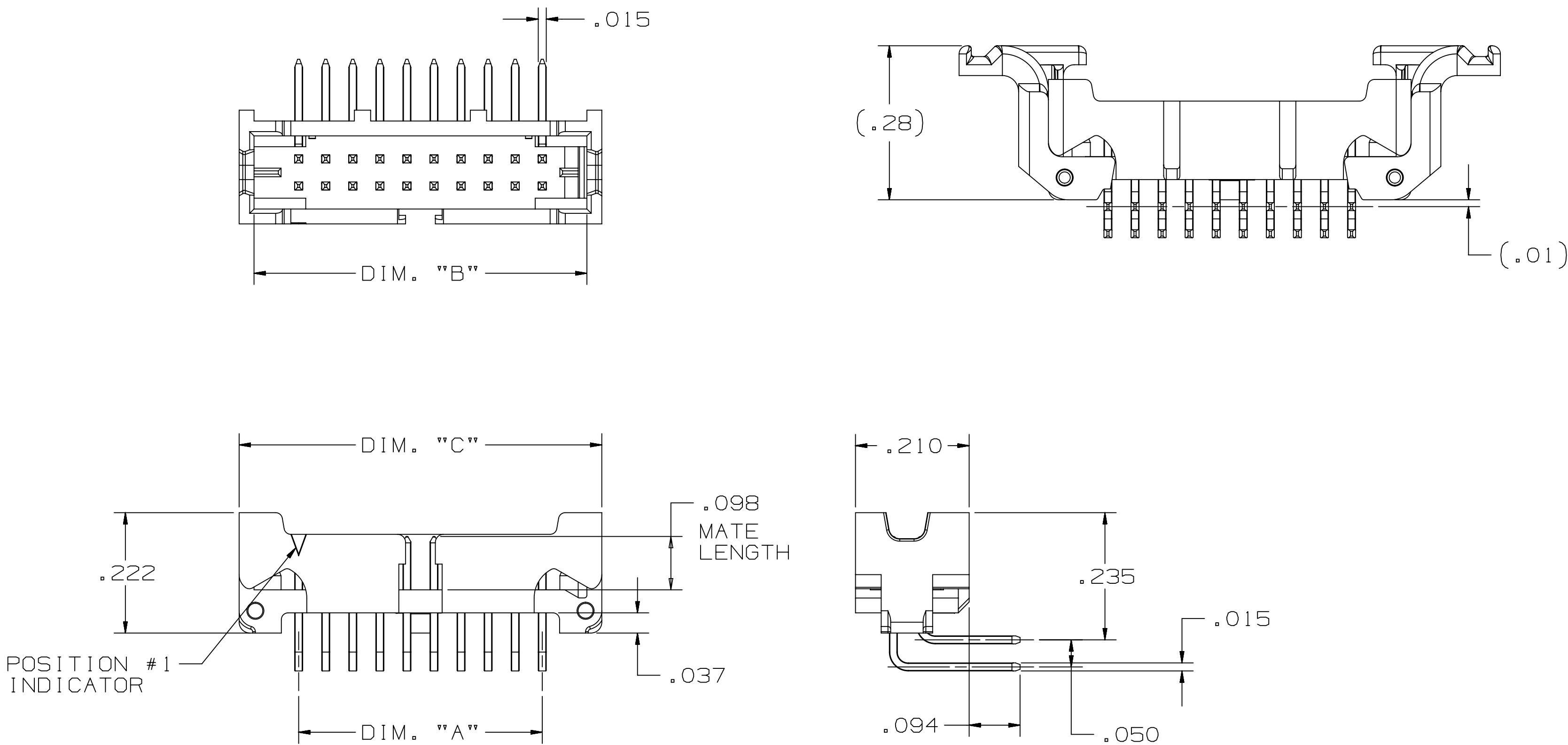
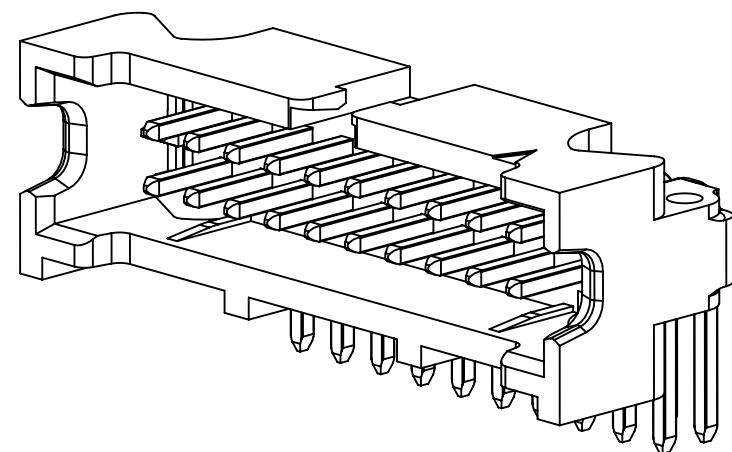


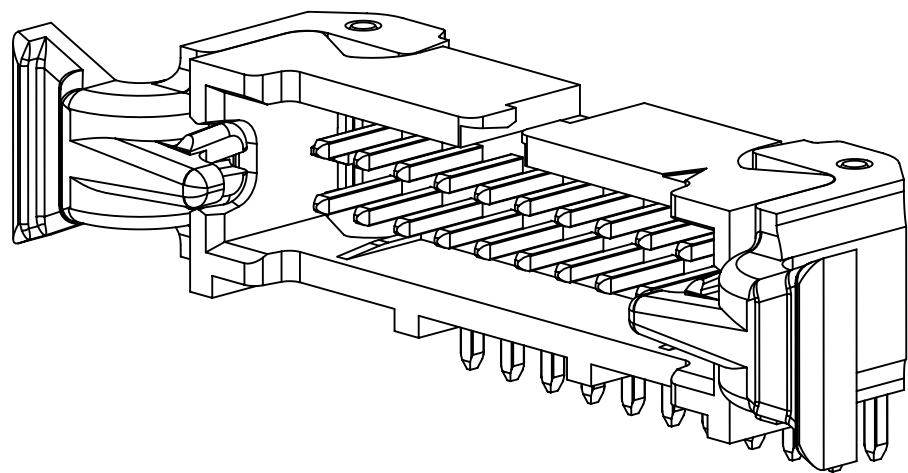
3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES



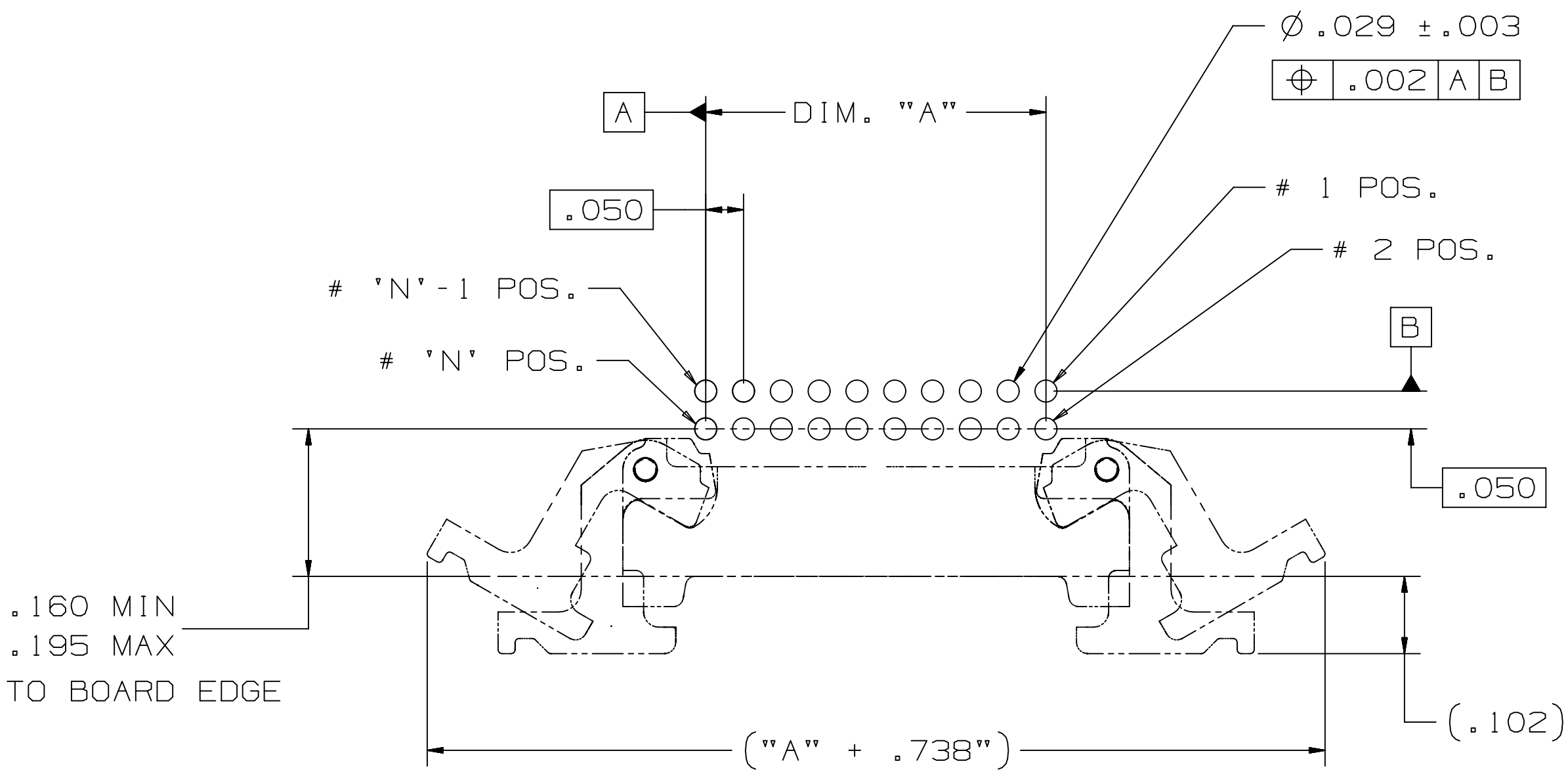
THRU BOARD, RIGHT ANGLE



WITHOUT LATCH/EHECT



WITH LATCH/EJECT



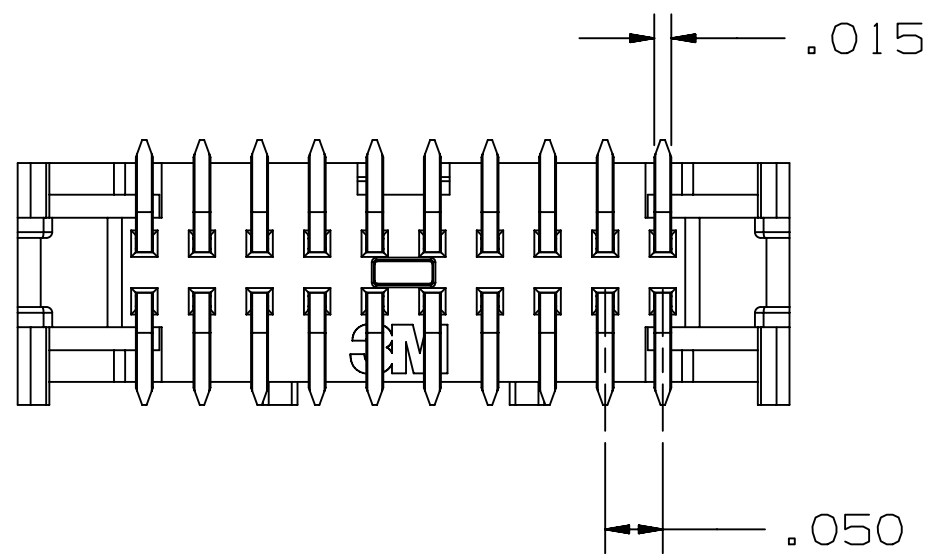
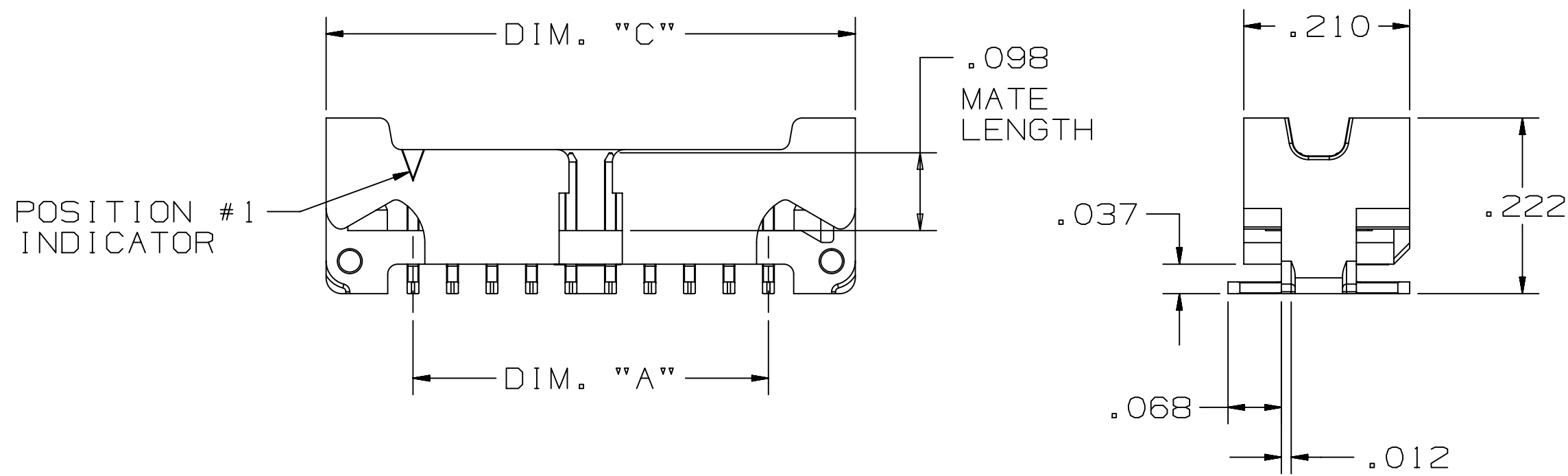
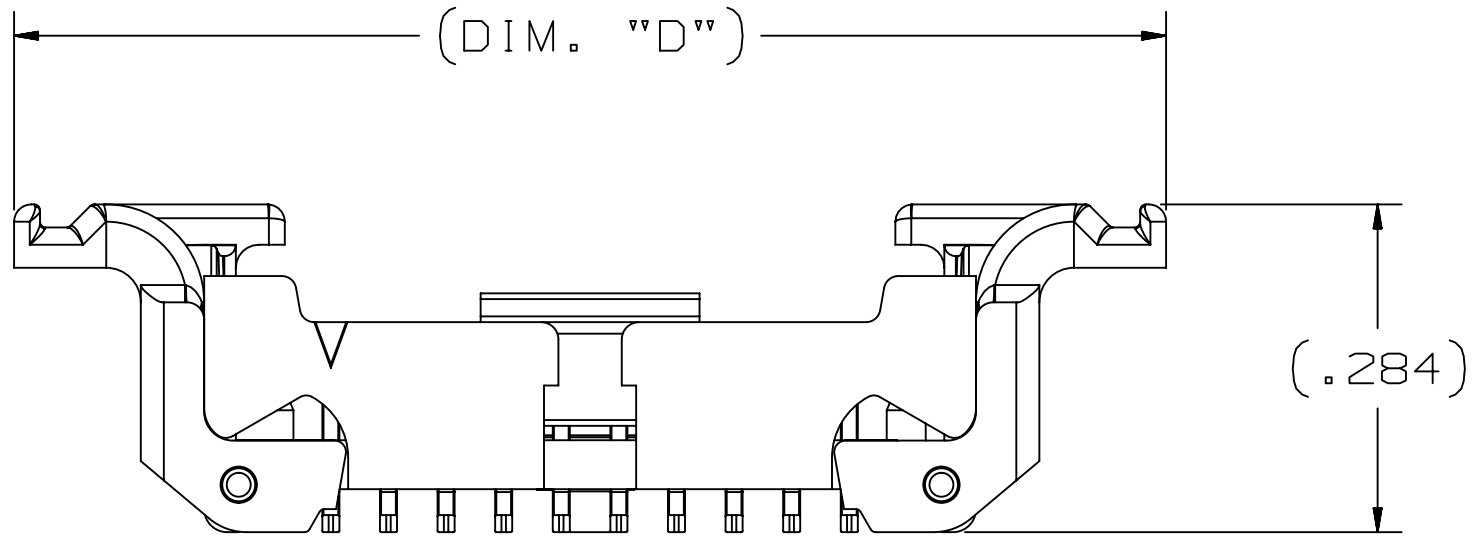
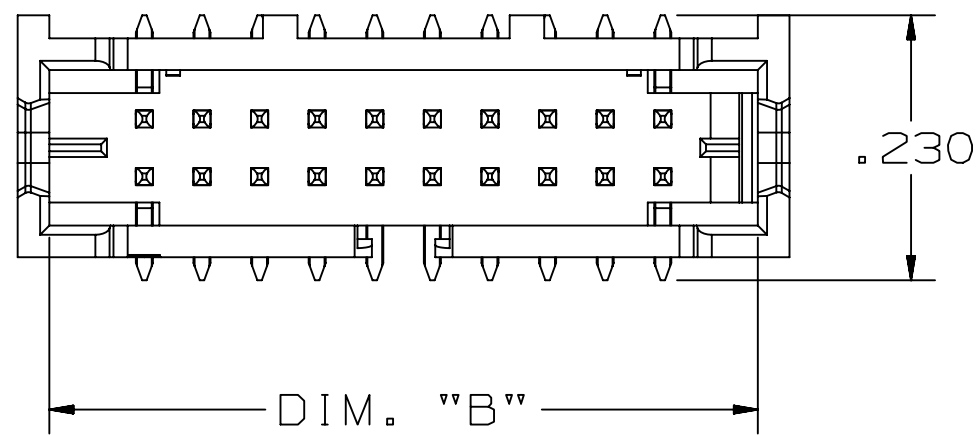
RECOMMENDED BOARD LAYOUT

TABLE 1: RIGHT ANGLE THRU

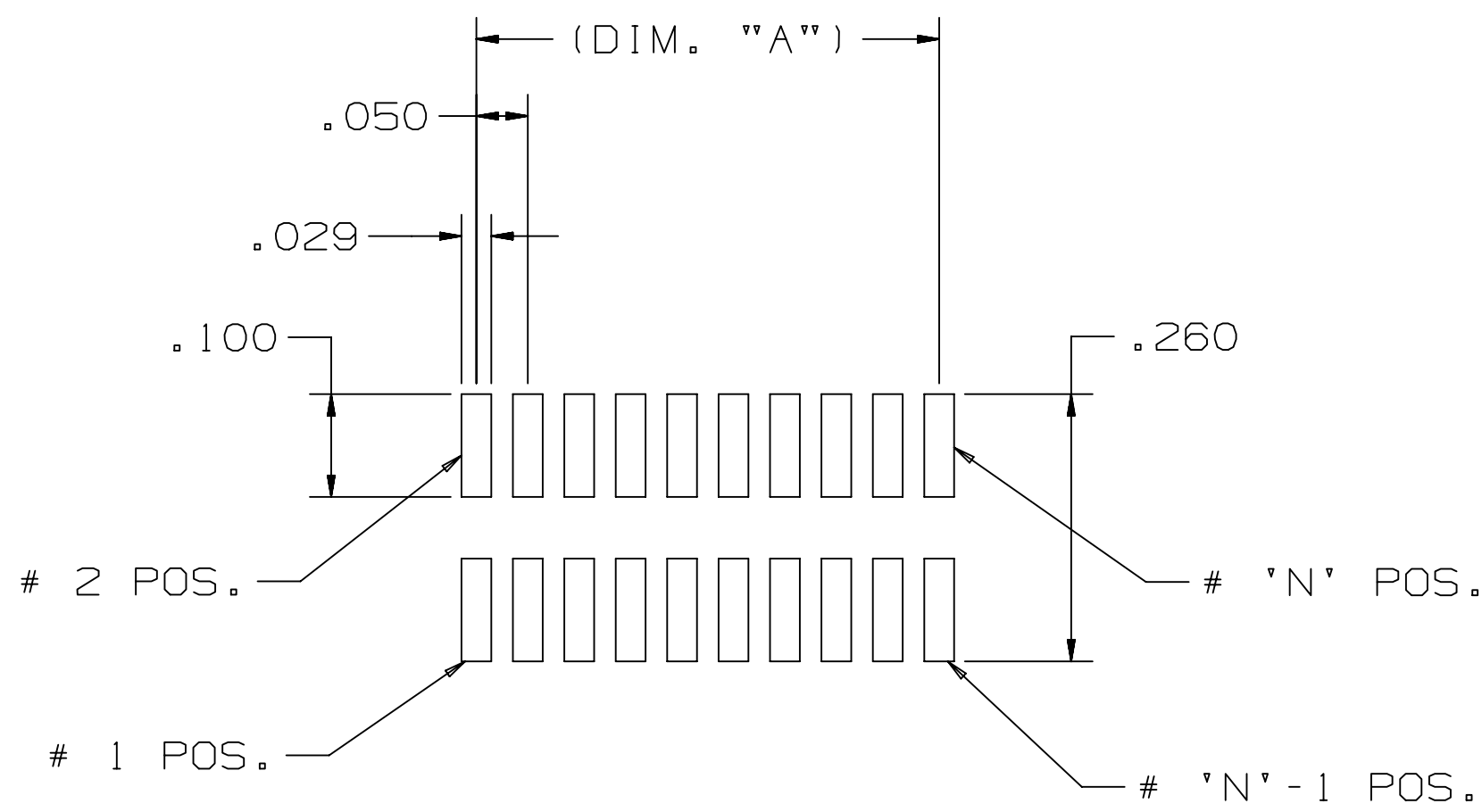
No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.215	.270
6	.100	.265	.320
8	.150	.315	.370
10	.200	.365	.420
12	.250	.415	.470
14	.300	.465	.520
16	.350	.515	.570
20	.450	.615	.670
26	.600	.765	.820
30	.700	.865	.920
40	.950	1.115	1.170
50	1.200	1.365	1.420

78-5100-2436-3 78-5100-2396-9		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD		
DESIGN REFERENCE				DRFT	ARM	DATE	NOV 29, 2012	PRC	DATE	NOV 29, 2012	
TOLERANCES EXCEPT AS NOTED				CHKD	SAN	DATE	NOV 29, 2012	APPR	SAN	DATE	NOV 29, 2012
DIVISION		EMSD		3M Center St. Paul, MN 55144							
DO NOT SCALE DRAWING		SCALE 6/1		TOLERANCES EXCEPT AS NOTED							
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2018		INCHES 0 ± .1 .00 ± .02 .000 ± .010 .0000 ± .0050							
MAX. SURFACE ROUGHNESS ALL SURFACES MARKED ONLY				MILLIMETERS 0 ± .1 .00 ± .000 0.00 ± .000							
CAGE NUMBER		SIZE		DRAWING NO.		REV.					
D		78-5100-2437-1		J							
MODEL		452		LISTS		YES		NO		SHT 2 OF 5	

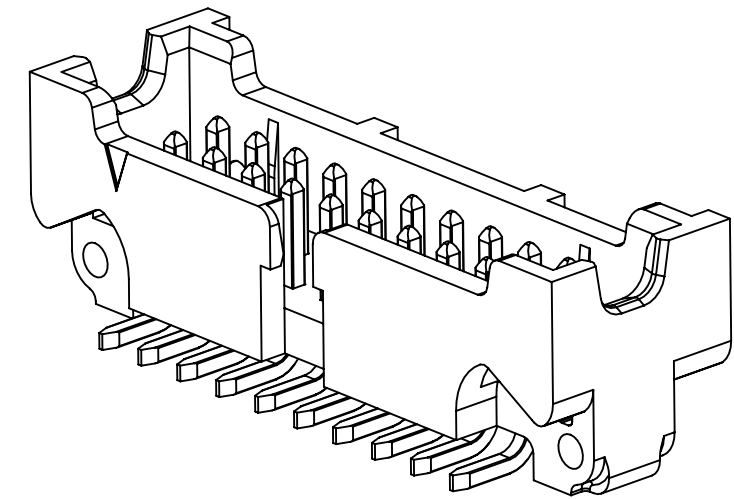
3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES



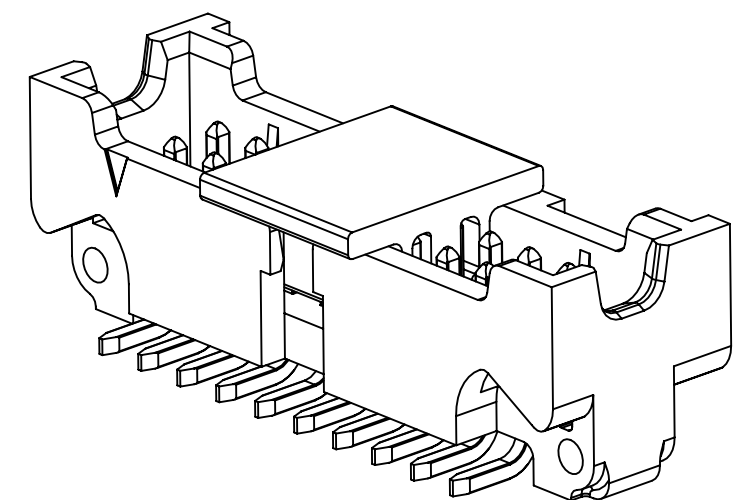
SURFACE MOUNT, VERTICAL



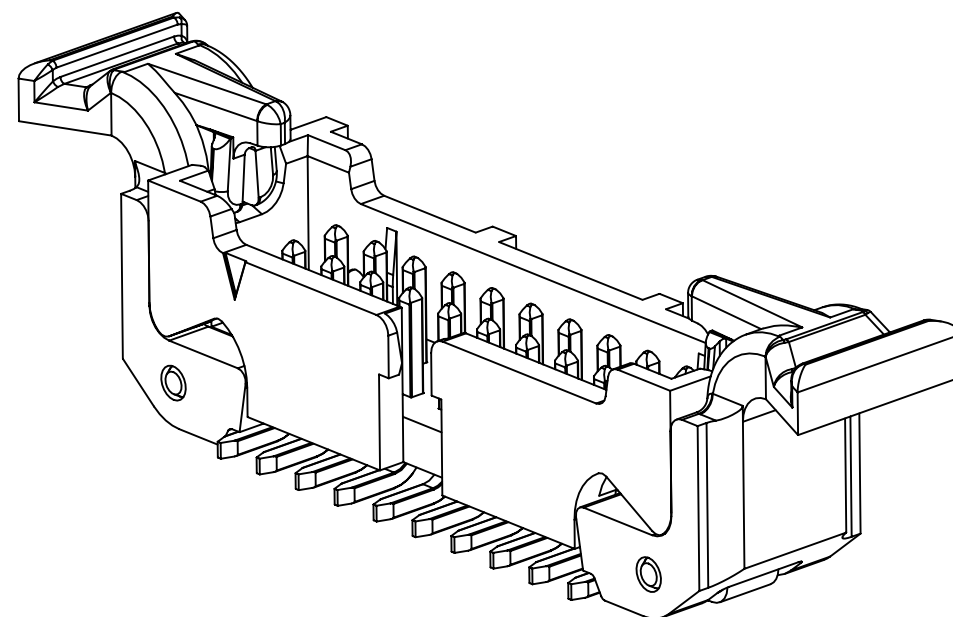
RECOMMENDED BOARD LAYOUT



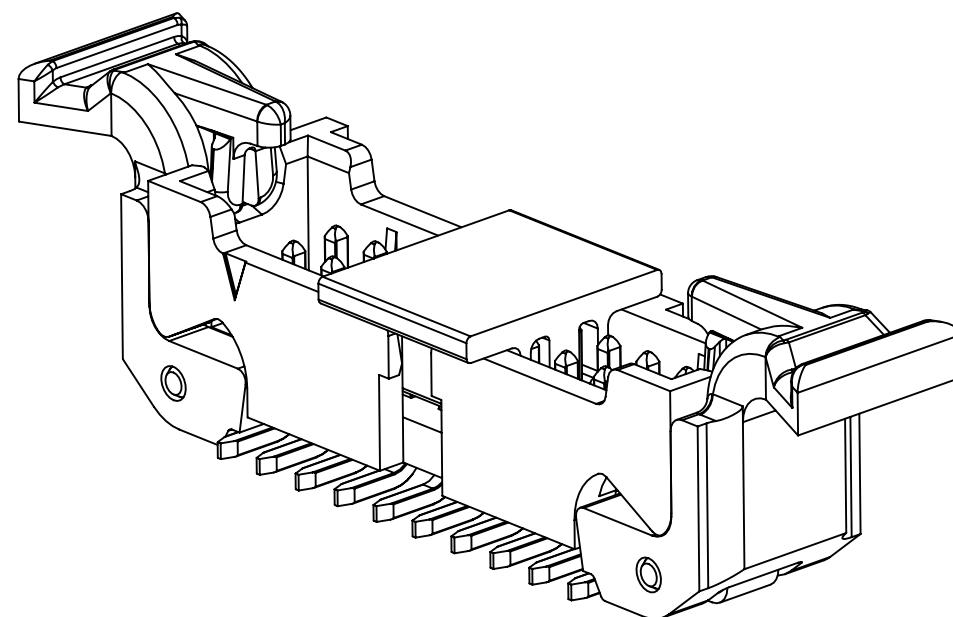
SHROUDED SMT HEADER



WITH VACUUM CAP



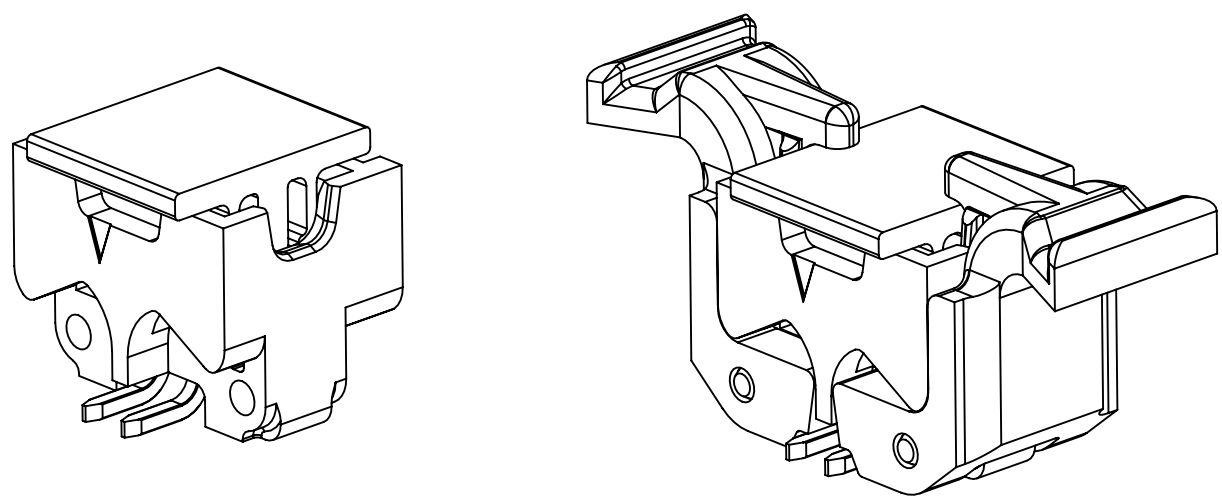
WITH LATCH/EJECT



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

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



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
XREF CODES		XREF CODES		ARM	PRC	NOV 29,2012		NOV 29,2012	NOV 29,2012
DIVISION		DIVISION CODE		CHKD	APPR	NOV 29,2012		NOV 29,2012	NOV 29,2012
DO NOT SCALE DRAWING		SCALE 6 1		TOLERANCES EXCEPT AS NOTED		© 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.			
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2018		TOLERANCES EXCEPT AS NOTED					
MAX. SURFACE ROUGHNESS		ALL SURFACES		MILLIMETERS		TITLE			
✓ MARKED ONLY		✓ MARKED ONLY		INCHES		SHROUDED BMT HEADER, .05 X .05 PITCH, L/E, 452 SERIES			
				MILLIMETERS					
				CAGE NUMBER		DRAWING NO.		REV.	
				D78-5100-2437-1		J			
				MODEL		452		DET	
						LISTS		YES ☒ NO ☐	
								SHT 3 OF 5	

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

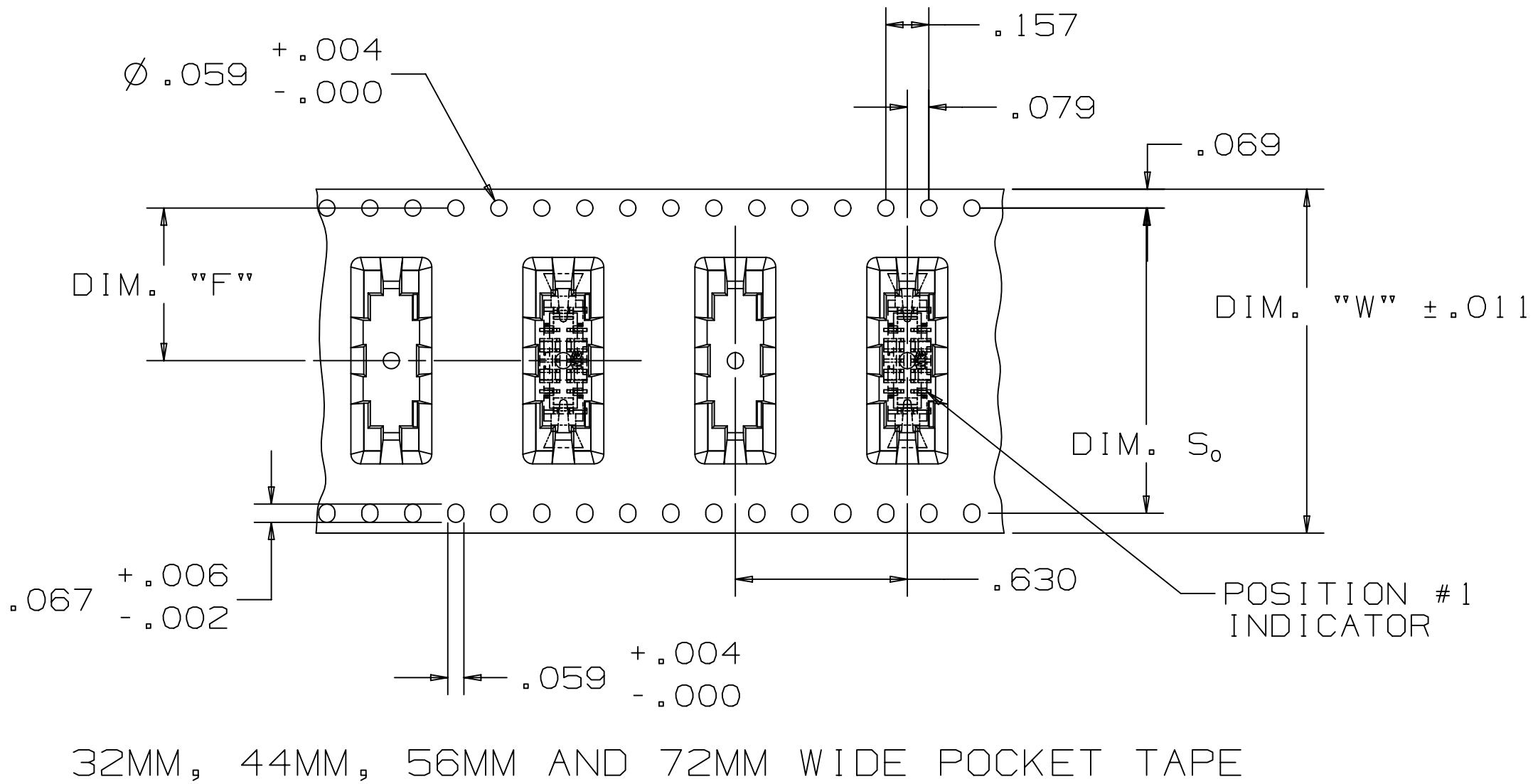
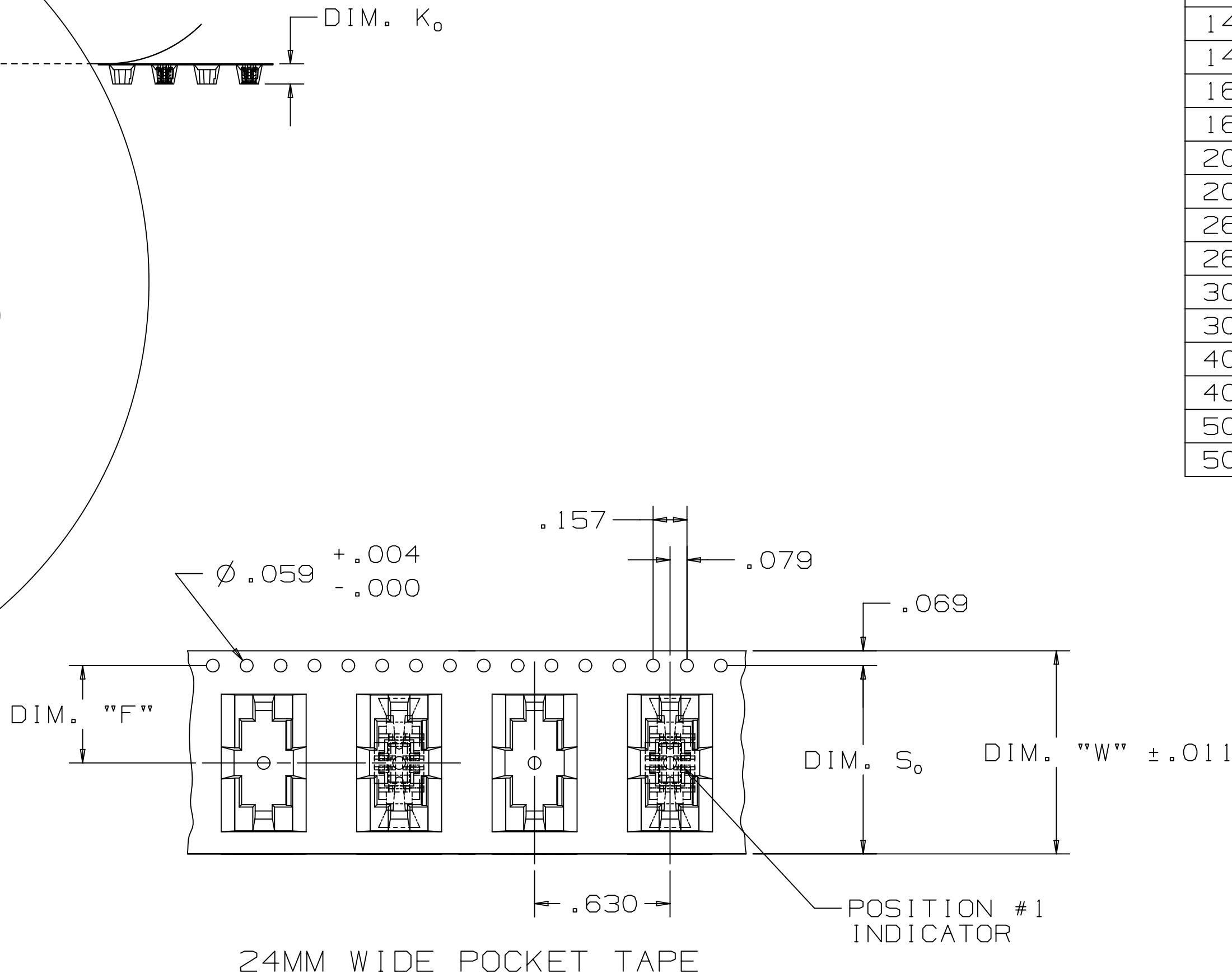
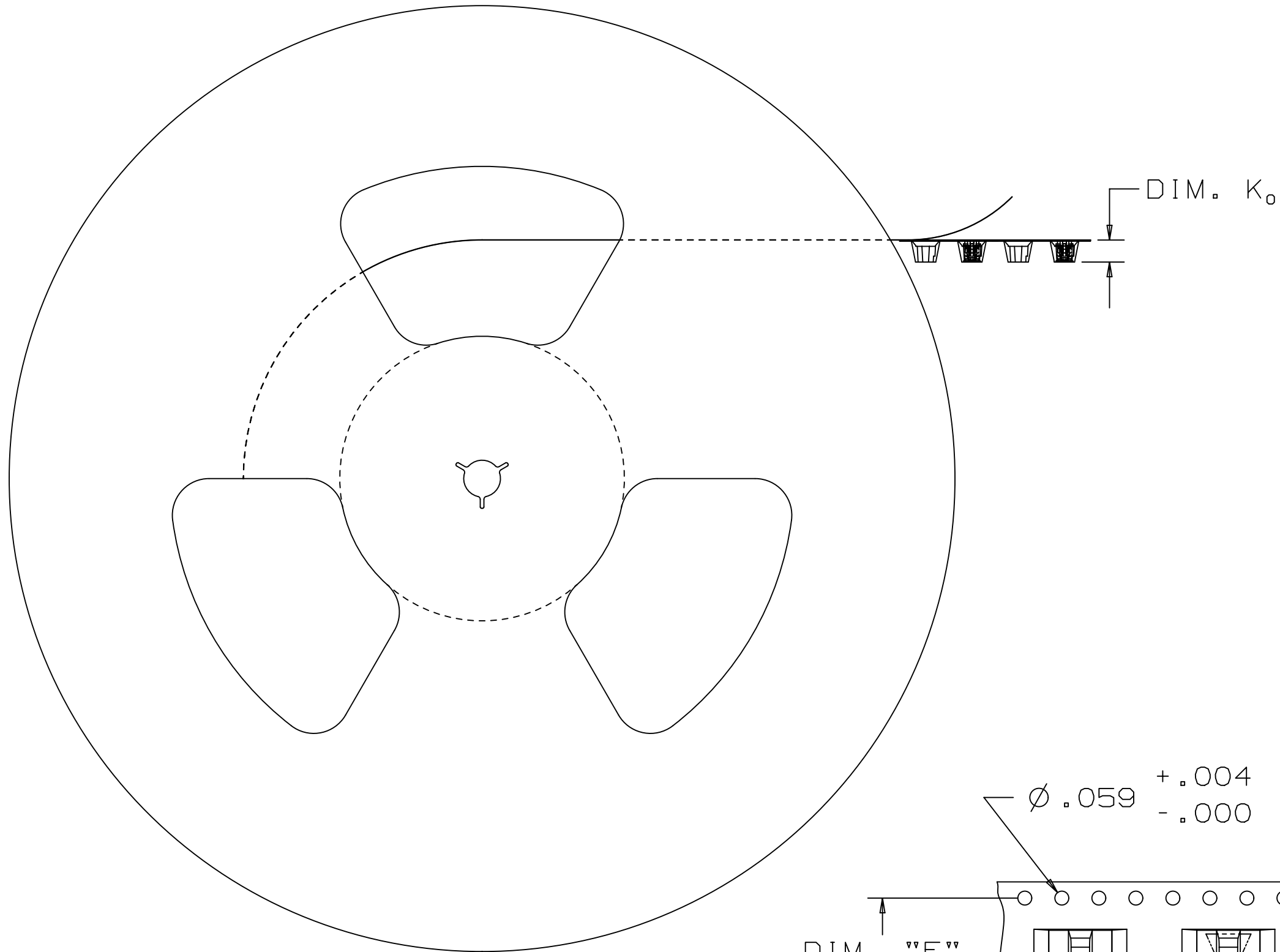
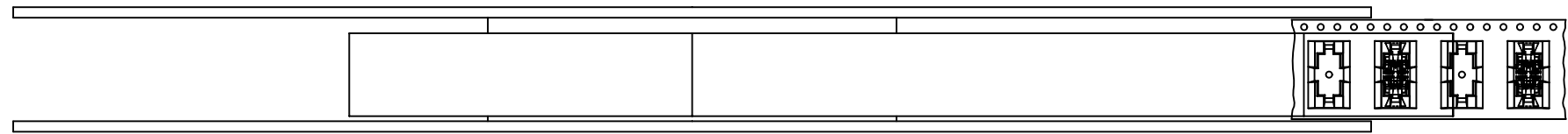


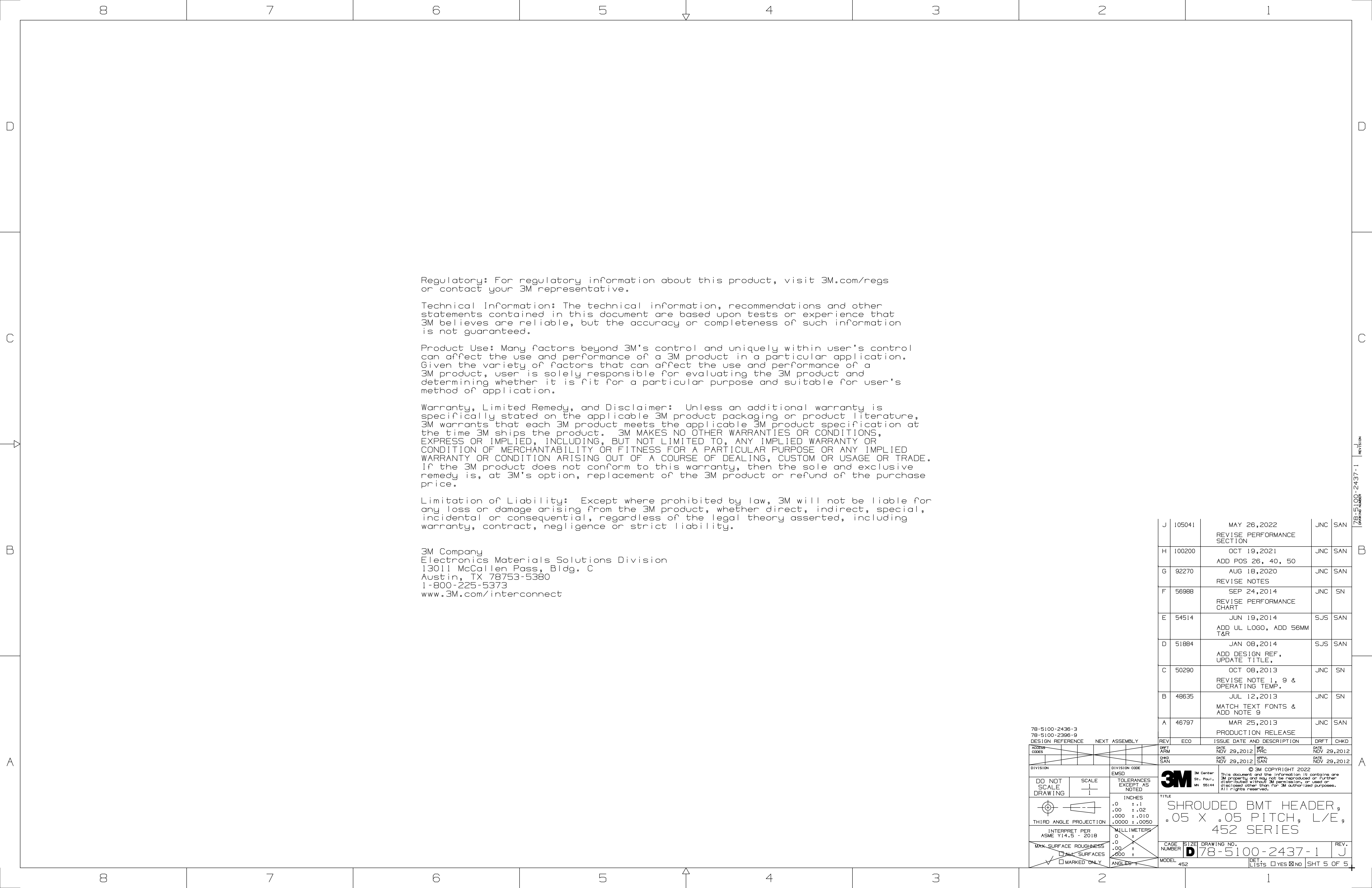
TABLE 2
TAPE AND REEL PACKAGING FOR SURFACEMOUNT HEADERS

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	
DATE	DATE	DATE	DATE
NOV 29,2012	NOV 29,2012	NOV 29,2012	NOV 29,2012
DRFT	ARM	PRC	NOV 29,2012
CHD	SAN	SAN	NOV 29,2012
DIVISION		DIVISION CODE	
		EMSD	
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INCHES	
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS	
MAX. SURFACE ROUGHNESS		ANGLES	
ALL SURFACES 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
NOV 29,2012	PRC	NOV 29,2012	NOV 29,2012	NOV 29,2012
NOV 29,2012	SAN	NOV 29,2012	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	DRAWING NO.	REV.	
D	78-5100-2437-1	J		
MODEL	452	LISTS	YES	NO
		SHT 4 OF 5		



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REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
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				