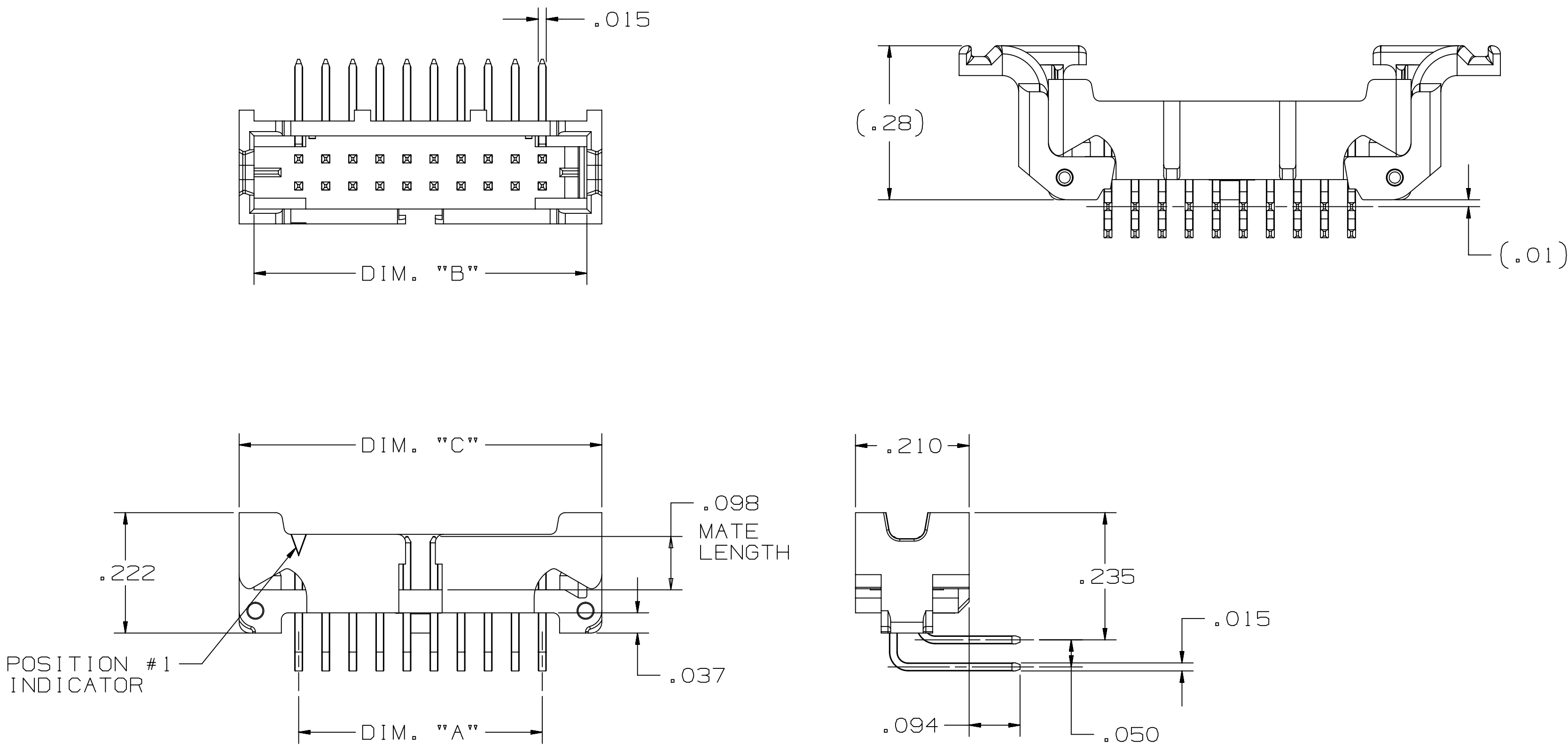
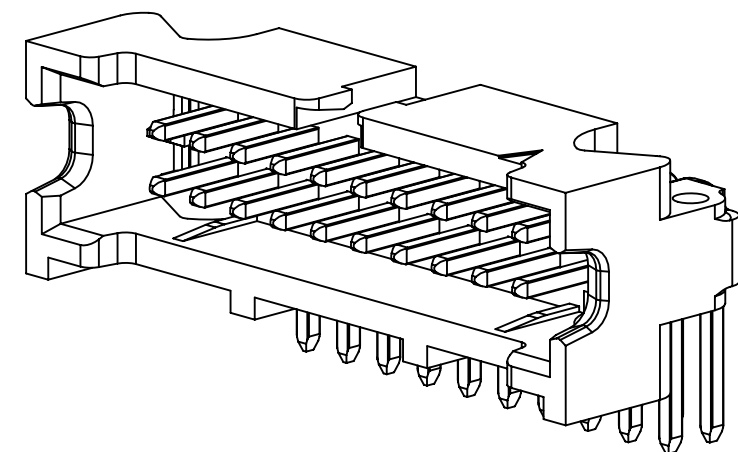


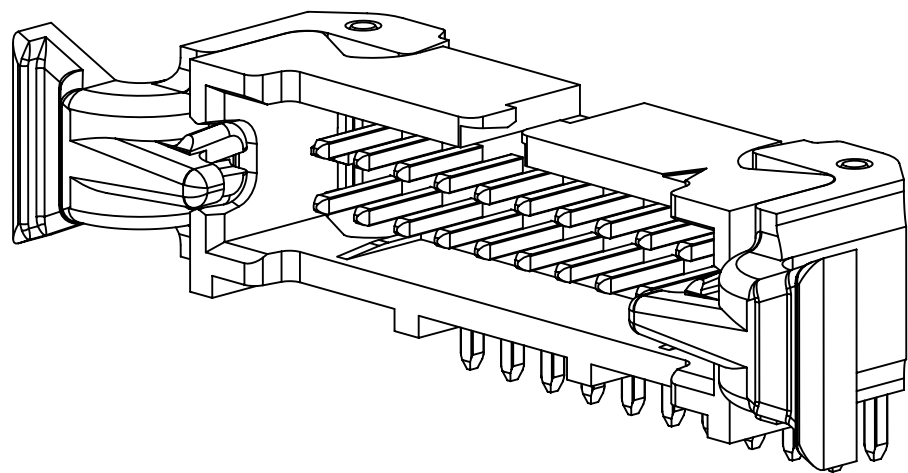
3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES



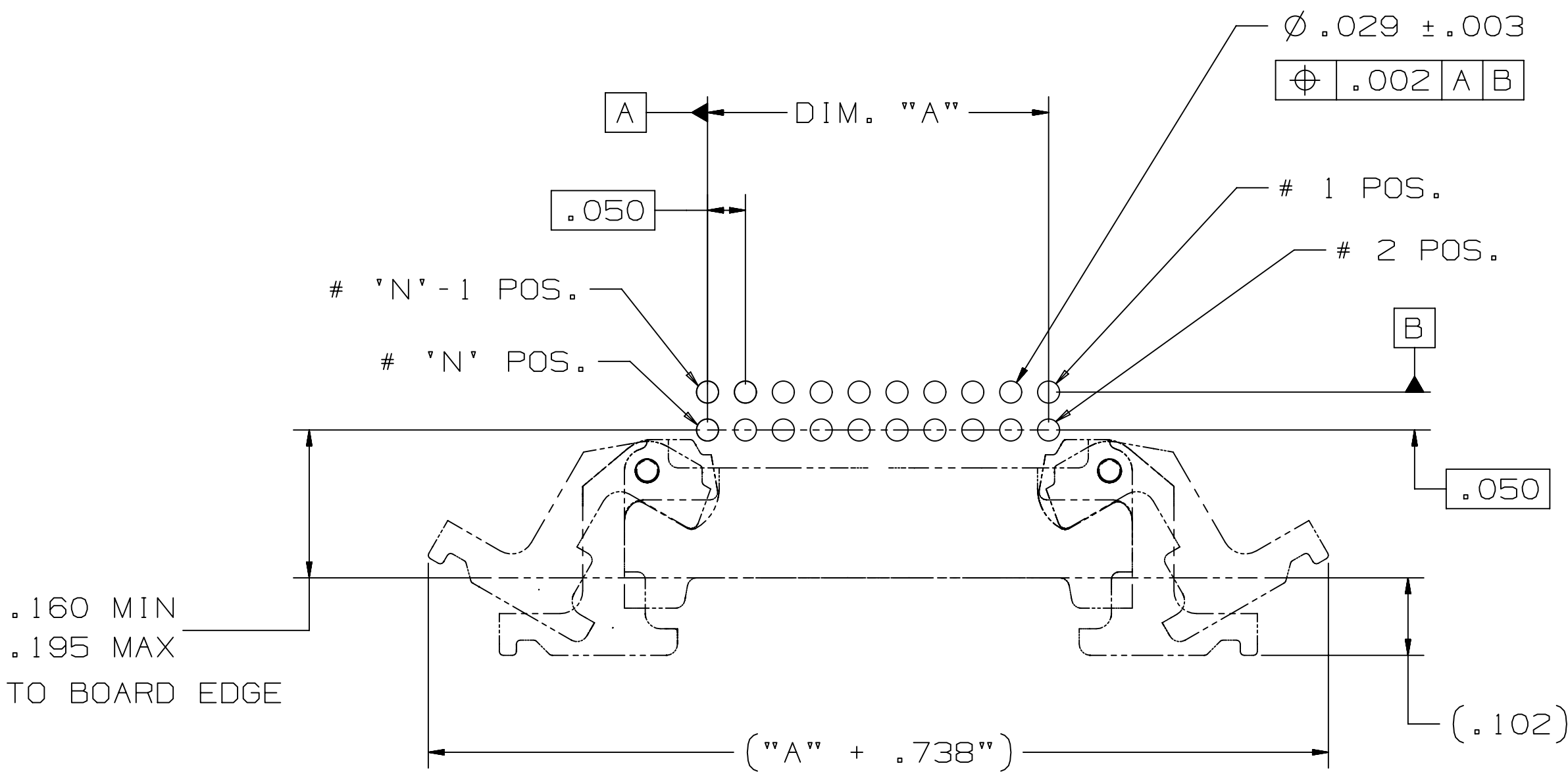
THRU BOARD, RIGHT ANGLE



WITHOUT LATCH/EJECT



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

INCHES .0 ± .1
.00 ± .02
.000 ± .010
.0000 ± .0050

MILLIMETERS 0 ± .1
.00 ± .003
.000 ± .0008

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2018

MAX. SURFACE ROUGHNESS

ALL SURFACES

MARKED ONLY

DIVISION

EMSD

REVISIONS

REV ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

DATE

NOV 29, 2012

PRC

DATE

NOV 29, 2012

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

DET

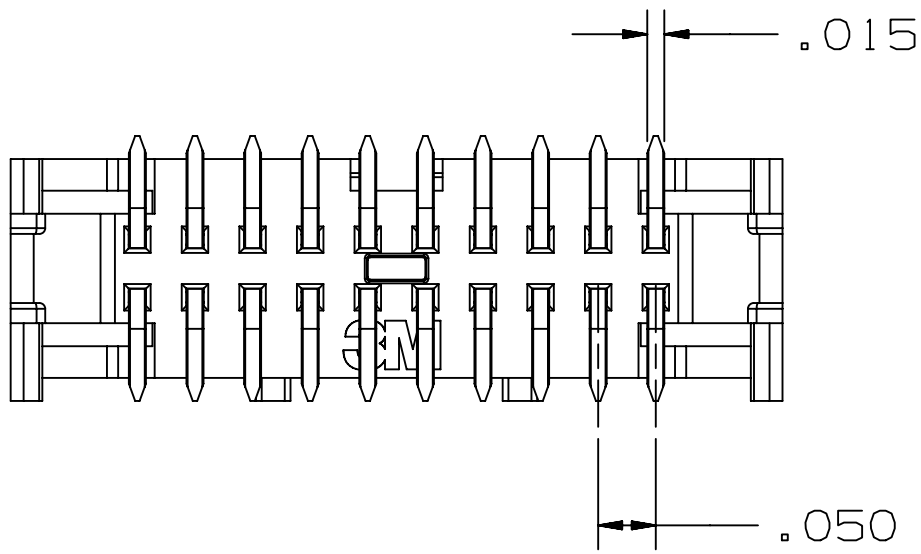
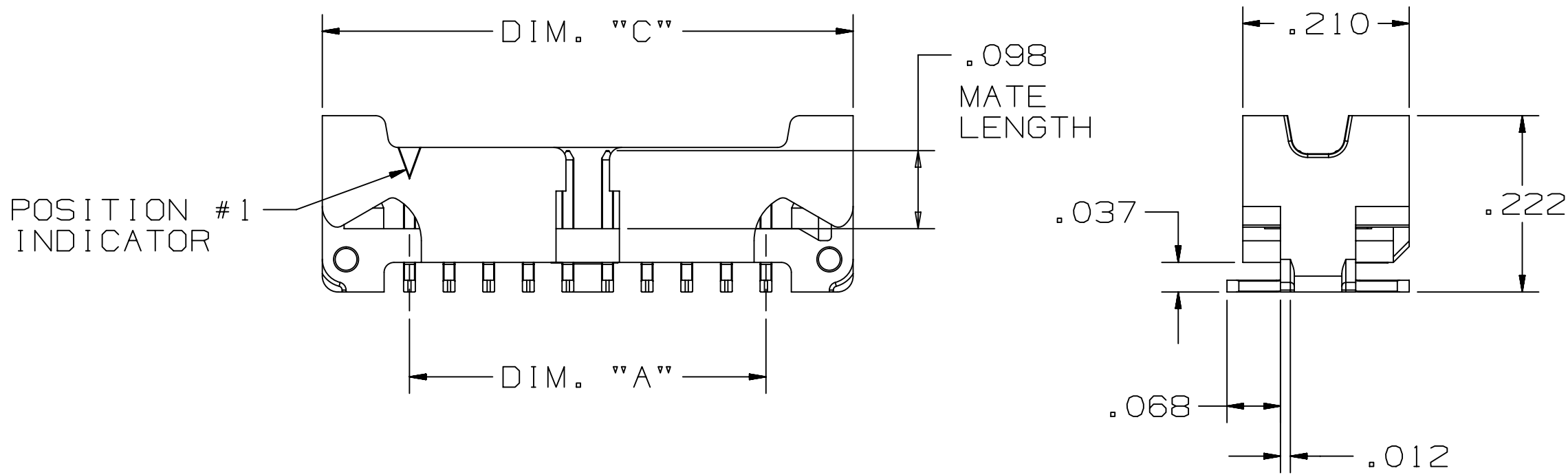
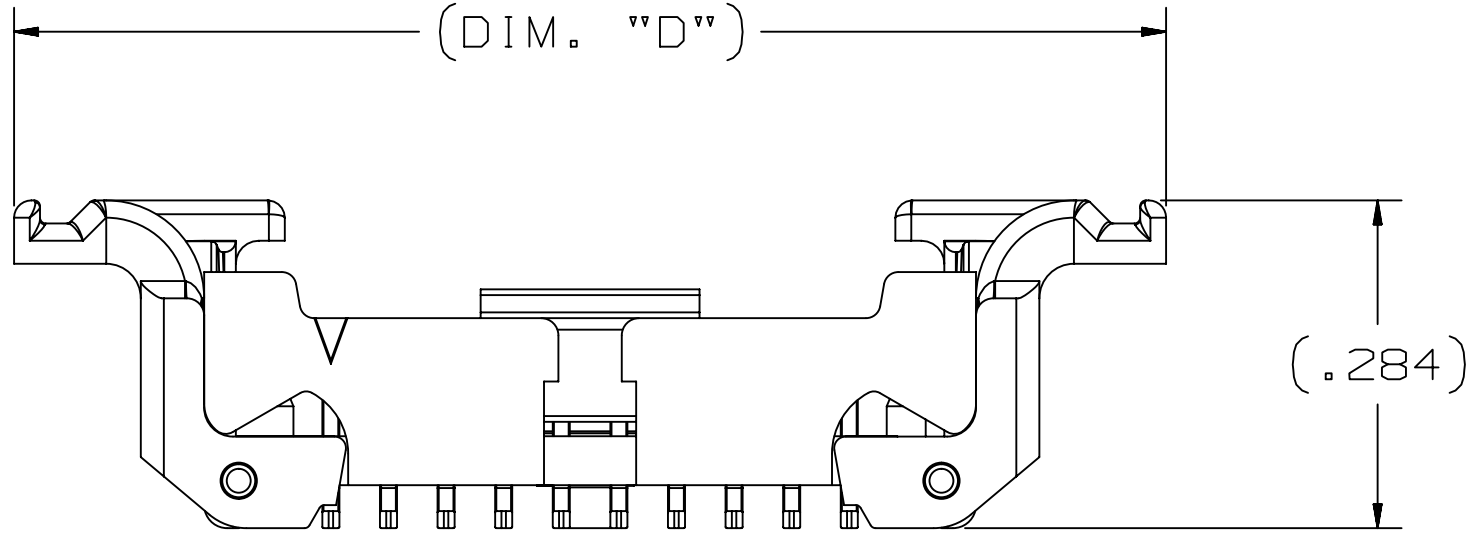
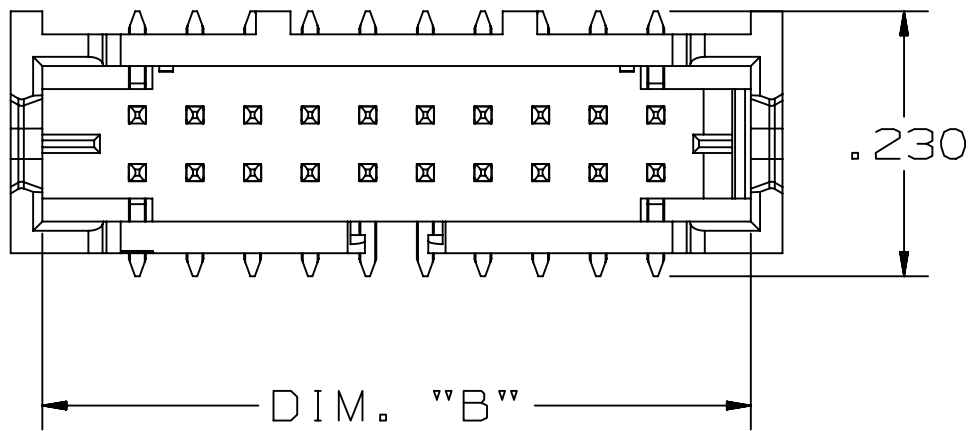
LISTS

YES

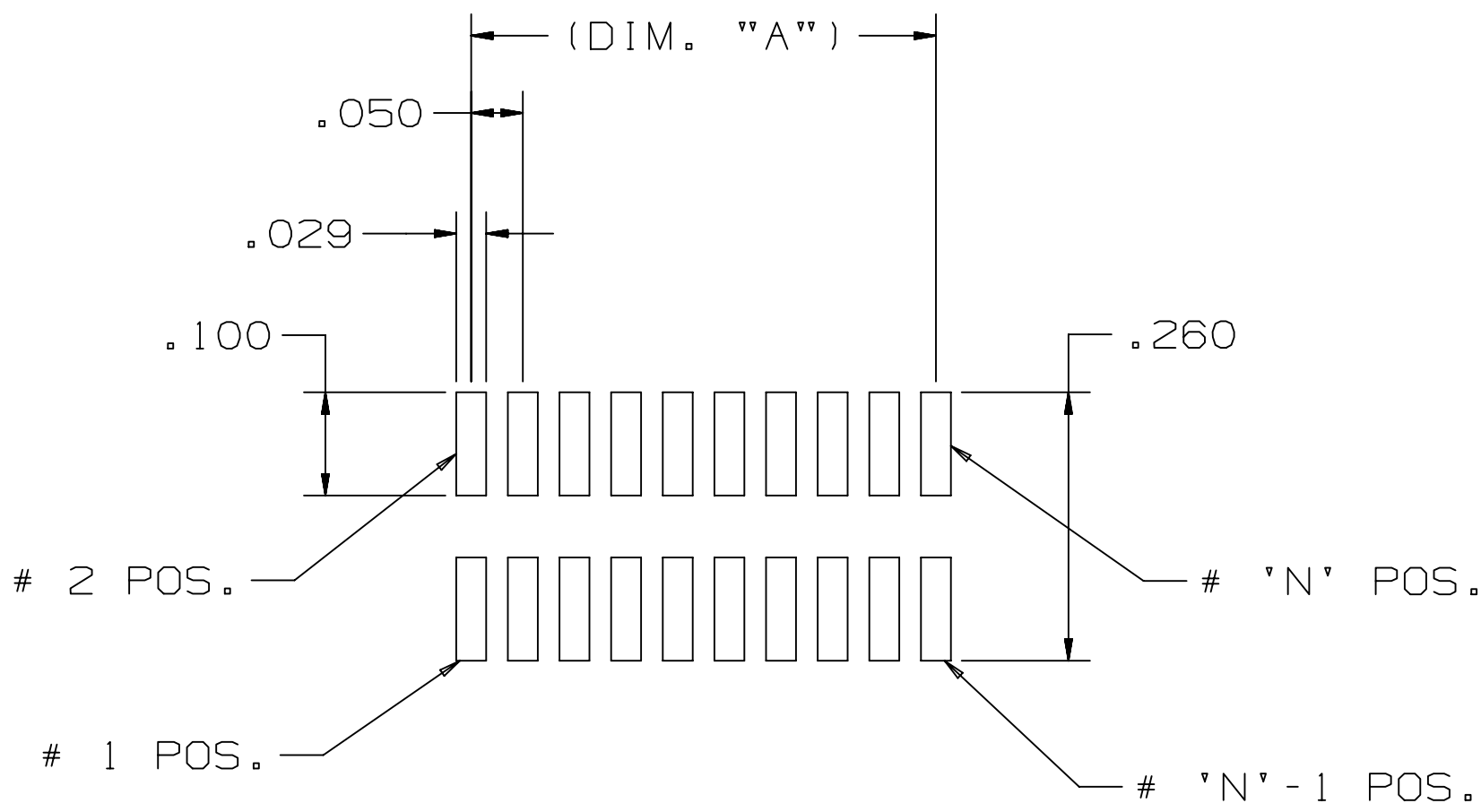
NO

SHT 2 OF 5

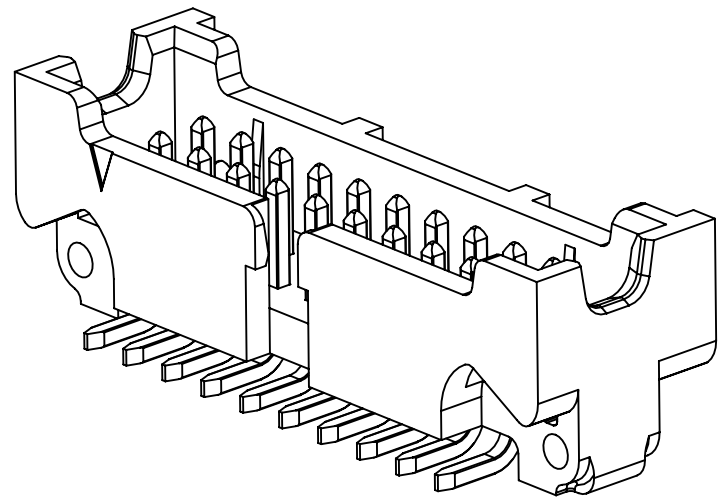
3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES



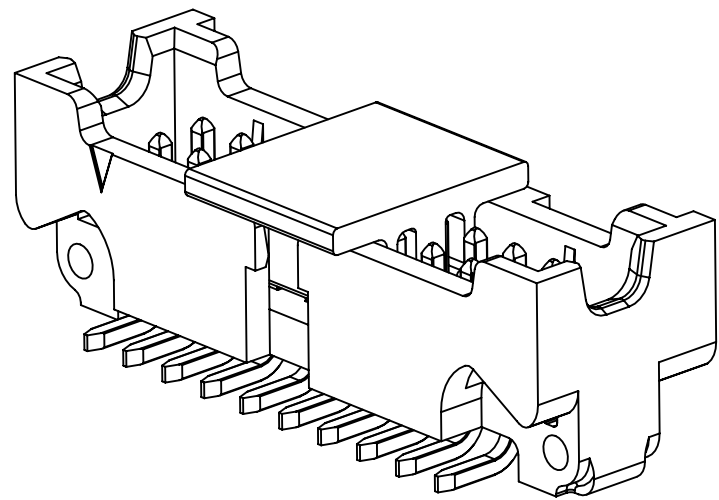
SURFACE MOUNT, VERTICAL



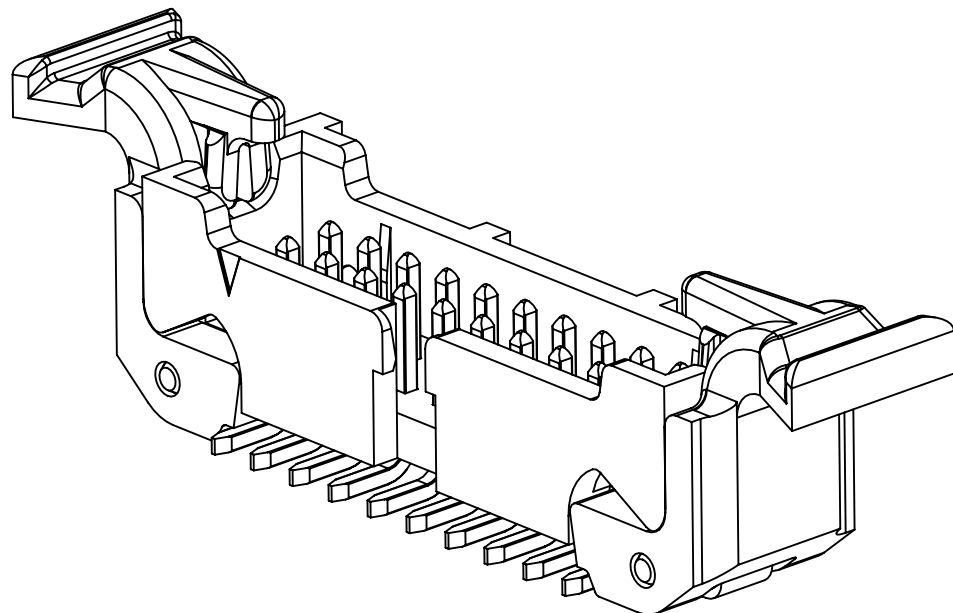
RECOMMENDED BOARD LAYOUT



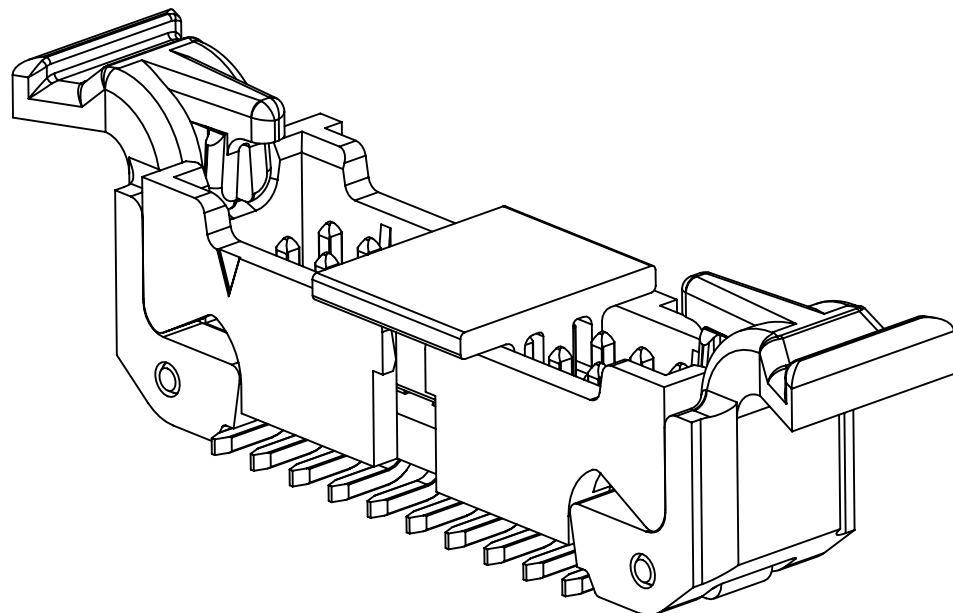
SHROUDED SMT HEADER



WITH VACUUM CAP



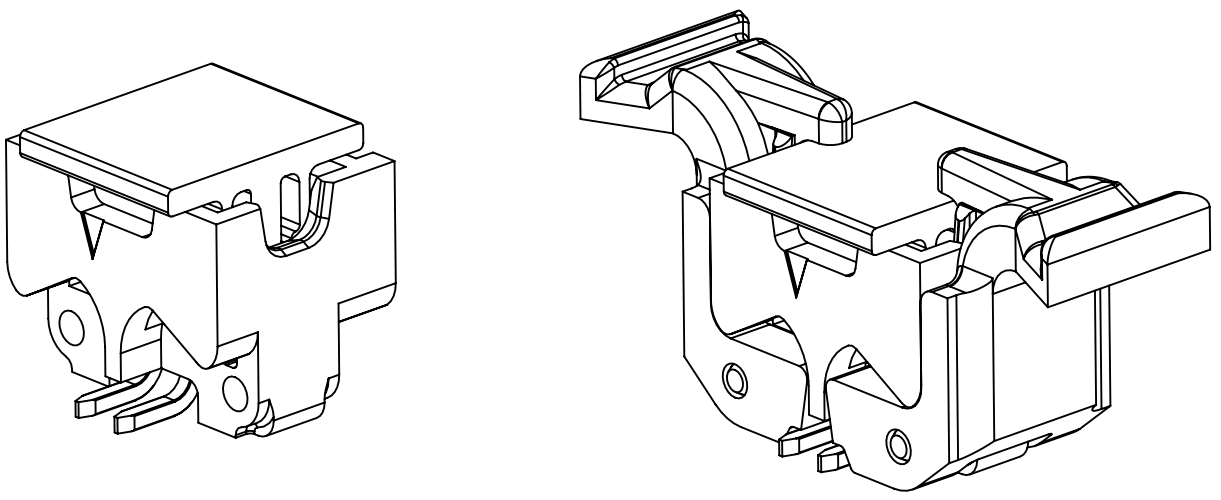
WITH LATCH/EJECT



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		DESIGN REFERENCE		NEXT ASSEMBLY	
XREF CODES		DIVISION		DIVISION CODE	
DO NOT SCALE DRAWING		SCALE 6/1		TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2018		MAX. SURFACE ROUGHNESS	
ALL SURFACES MARKED ONLY		CAGE NUMBER		DRAWING NO.	
MODEL 452		REV. J		SHT 3 OF 5	

J	105041	MAY 26, 2022	REVISE PERFORMANCE SECTION	JNC	SAN
H	100200	OCT 19, 2021	ADD POS 26, 40, 50	JNC	SAN
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	PRODUCTION RELEASE	JNC	SAN

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

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TITLE		SHROUDED BMT HEADER, .05 X .05 PITCH, L/E, 452 SERIES	
CAGE NUMBER		D78-5100-2437-1	
MODEL		452	

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

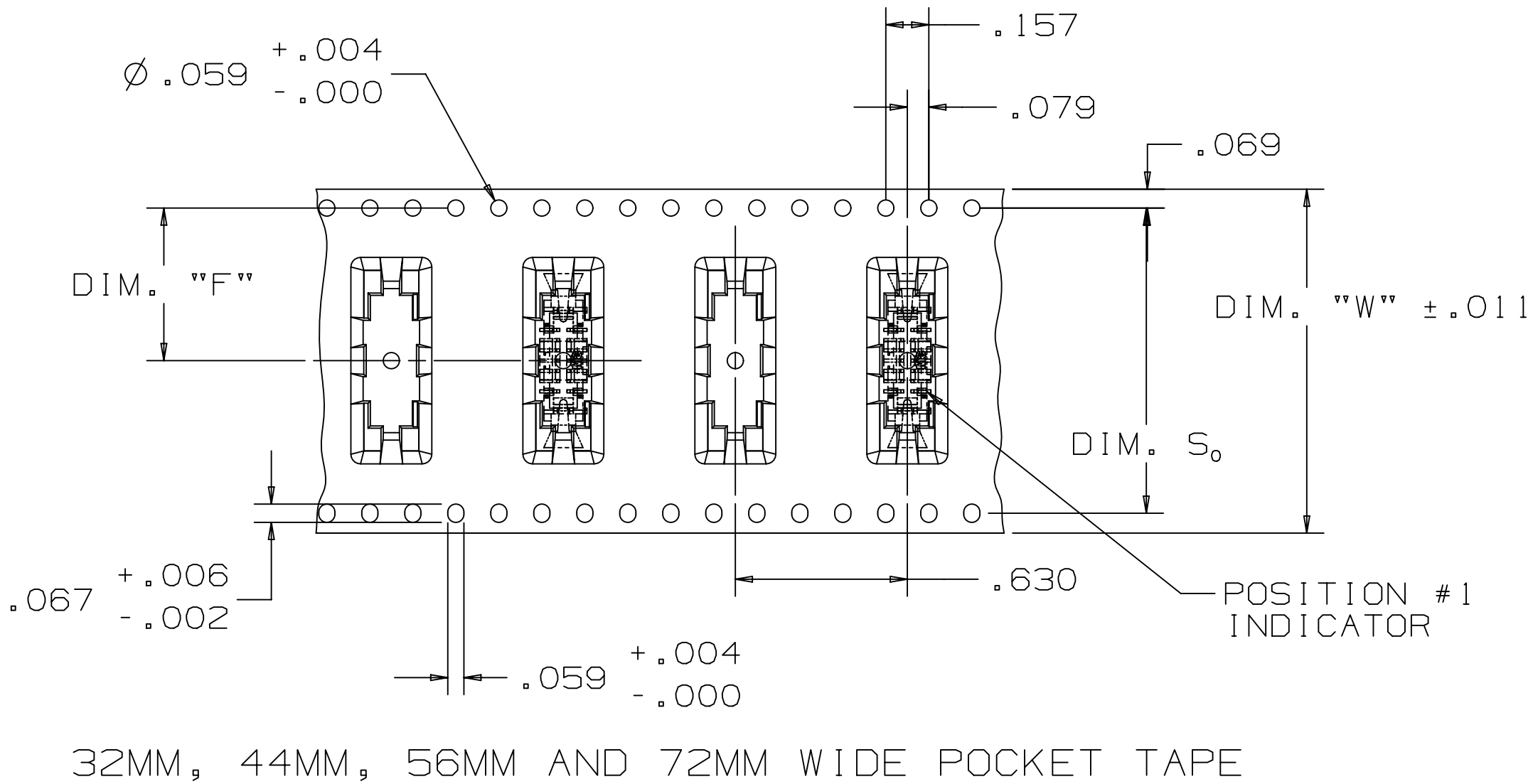
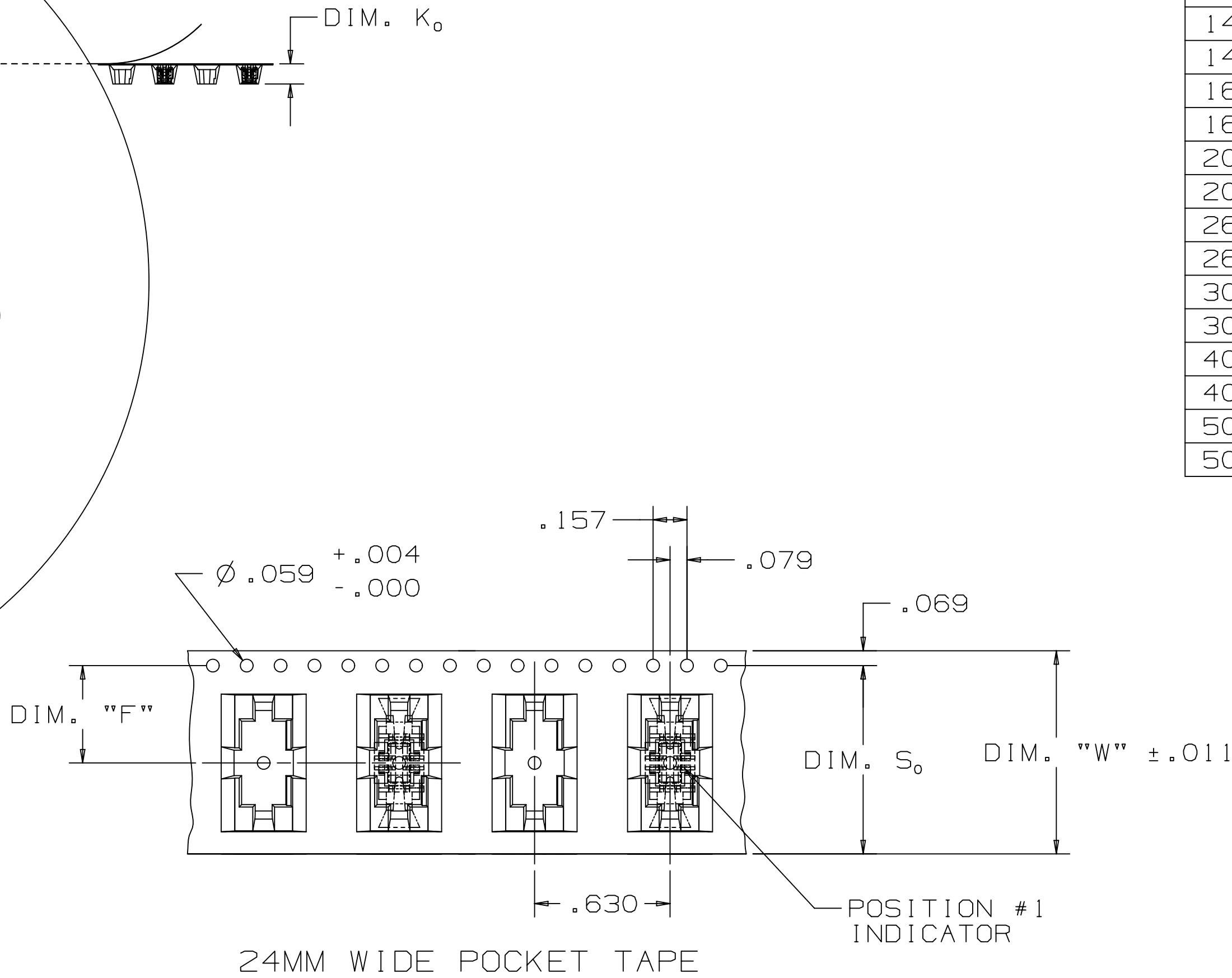
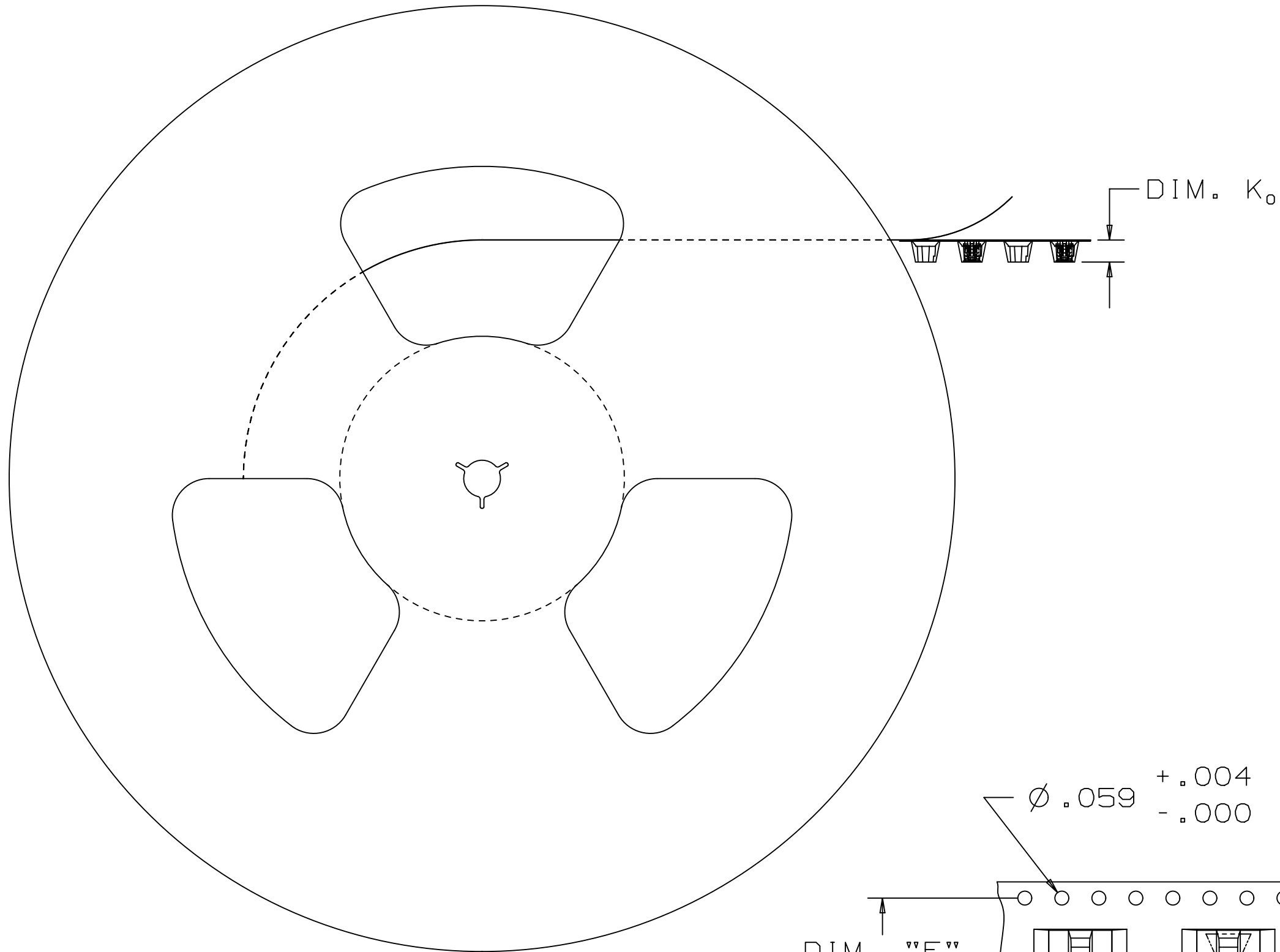
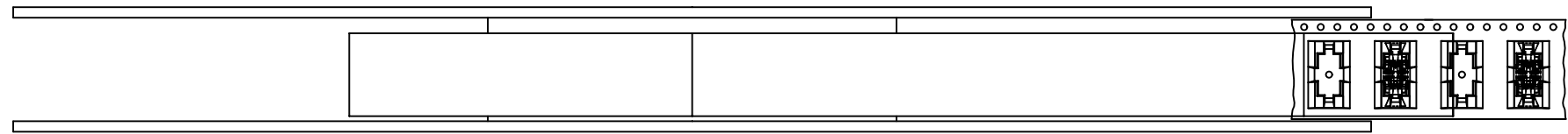


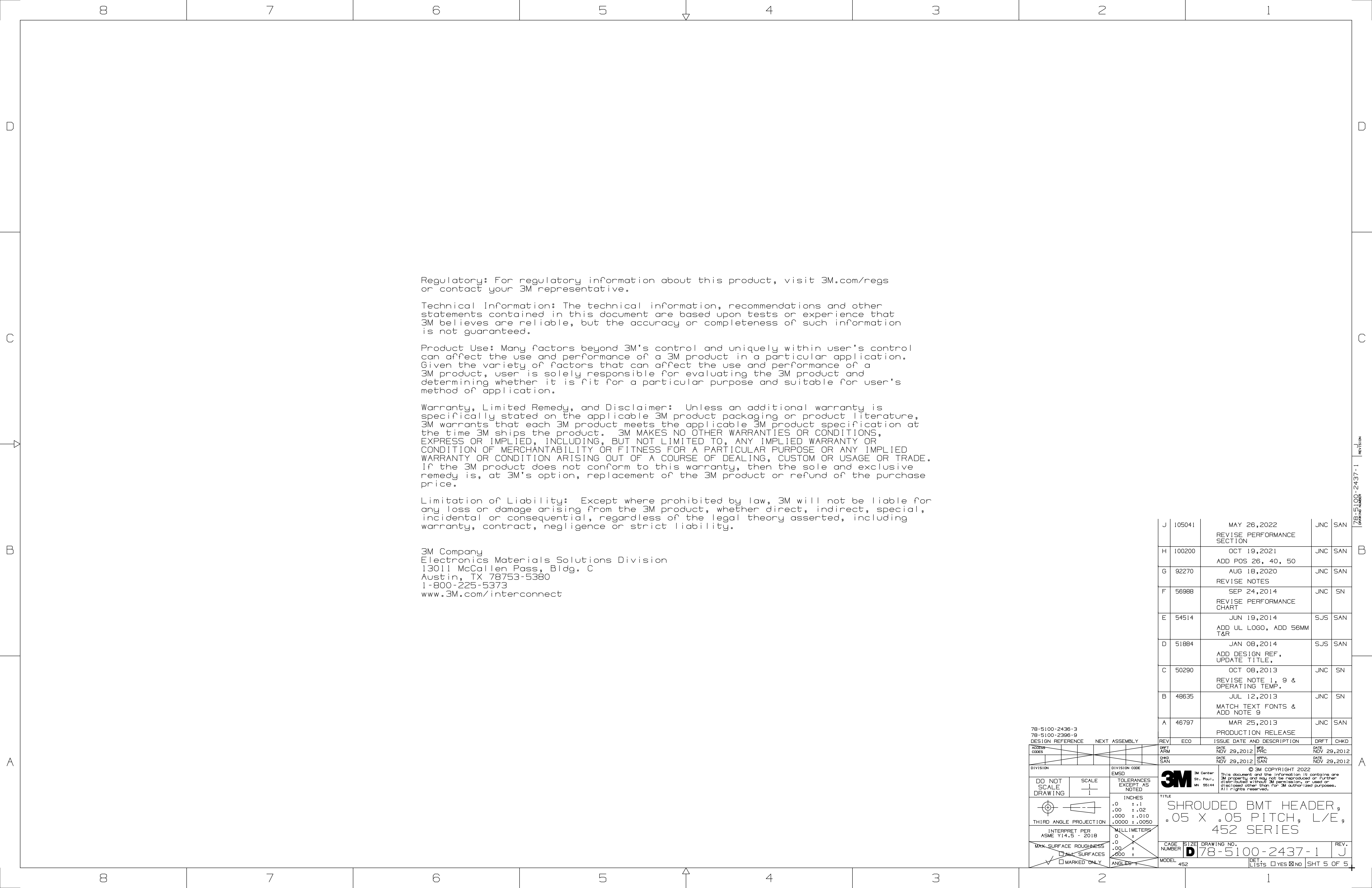
TABLE 2
TAPE AND REEL PACKAGING FOR SURFACEMOUNT HEADERS

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	ECO	ISSUE	DATE AND DESCRIPTION
NOV 29,2012	NOV 29,2012	NOV 29,2012	NOV 29,2012
DIVISION		DIVISION CODE	
EMSD		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	NOV 29,2012	NOV 29,2012	NOV 29,2012	NOV 29,2012	NOV 29,2012
DIVISION		DIVISION CODE		EMSD	
EMSD		EMSD		EMSD	
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		INCHES	
THIRD ANGLE PROJECTION		MILLIMETERS		ANGLES	
INTERPRET PER ASME Y14.5 - 2018		MAX. SURFACE ROUGHNESS		ALL SURFACES	
MARKED ONLY		ANGLES		MARKED ONLY	
CAGE NUMBER		SIZE		DRAWING NO.	
D78-5100-2437-1		J		REV.	
MODEL		452		LISTS	
YES		NO		SHT 4 OF 5	



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J	105041	MAY 26,2022	JNC	SAN
H	100200	OCT 19,2021	JNC	SAN
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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
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