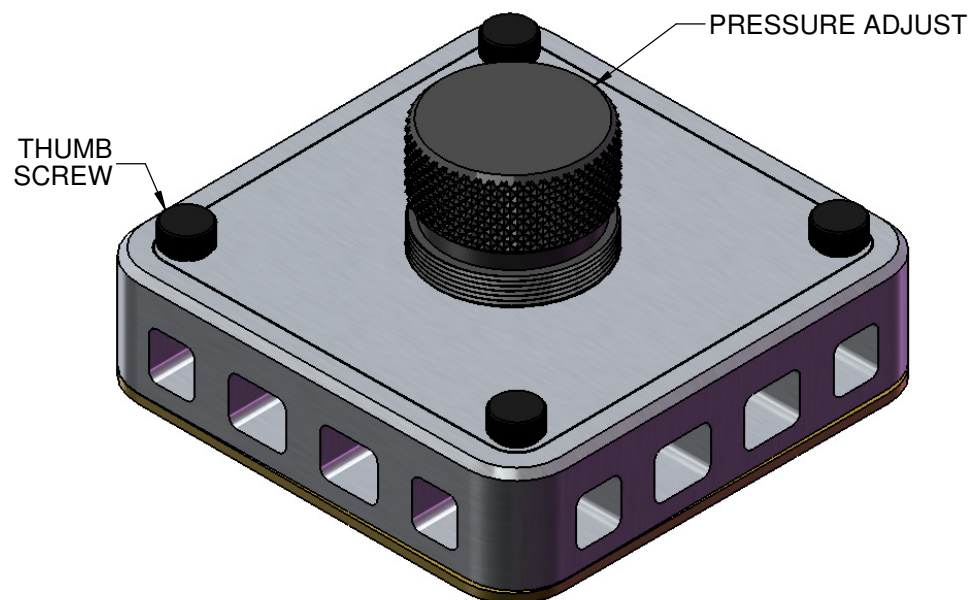
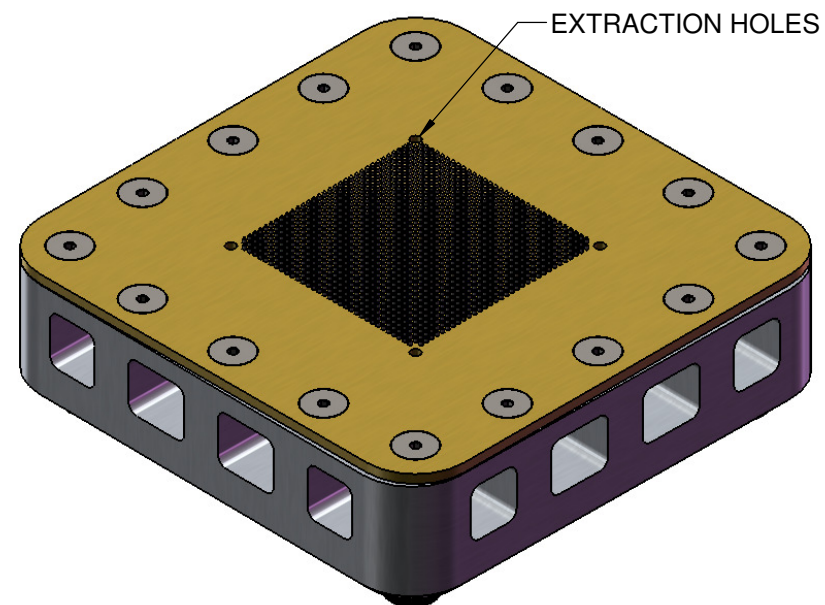


MODELS

TOP VIEW



ARRAY PLATE



APPROVALS	DATE				
DRAWN T. Au	9/11/2017				
ENG M. Hart	9/11/2017	TITLE C7-PLANAR-1152A CCGA LAPPING HOLDER			
MFG					
QA		SCALE 1:1	SIZE A	DRAWING NO. 75	REV A
CUST					
REVISED		DO NOT SCALE DRAWING			SHEET 1 OF 13

EXPLODED VIEW

PRESSURE
ADJUSTMENT
KNOB
DWG 700200

TOP PLATE
DWG 700241

CLOSURE
KNOBS DWG 704028

CCGA

COLUMNS

SHIM FOR
COLUMN HEIGHT
DWG 725275

BRASS
ARRAY PLATE
DWG 701275

ALUMINUM
FRAME
DWG 700240

TopLine®

TITLE C7-PLANAR-1152A
CCGA LAPPING HOLDER

SCALE
1:1.25

SIZE
A

DRAWING NO.
700275

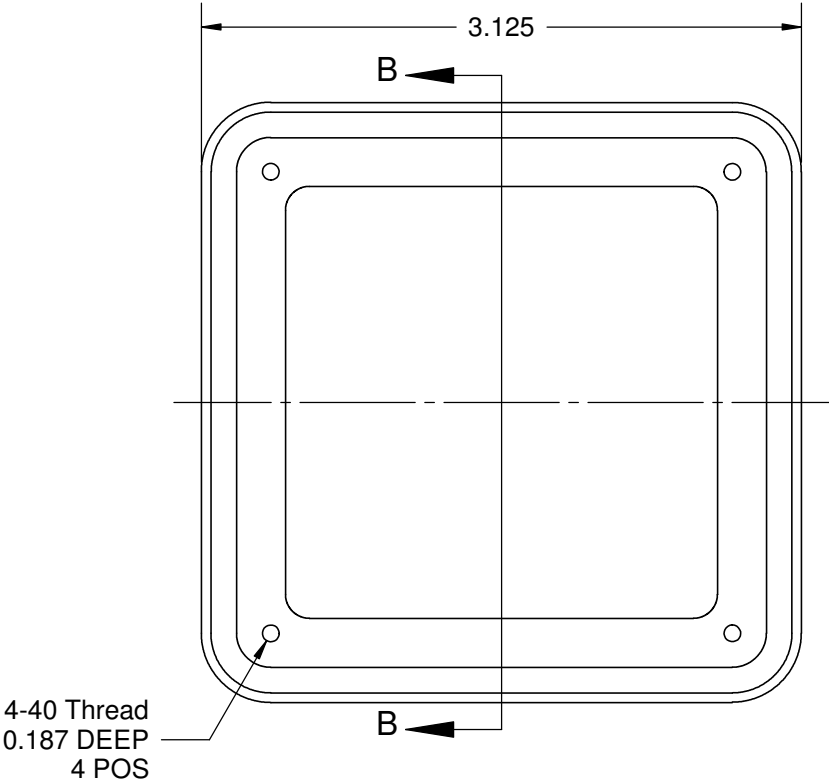
REV
A

DO NOT SCALE DRAWING

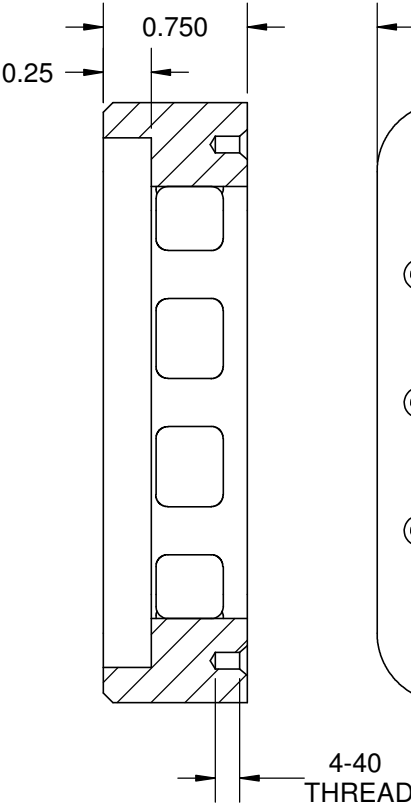
SHEET 2 OF 13

ALUMINUM FRAME

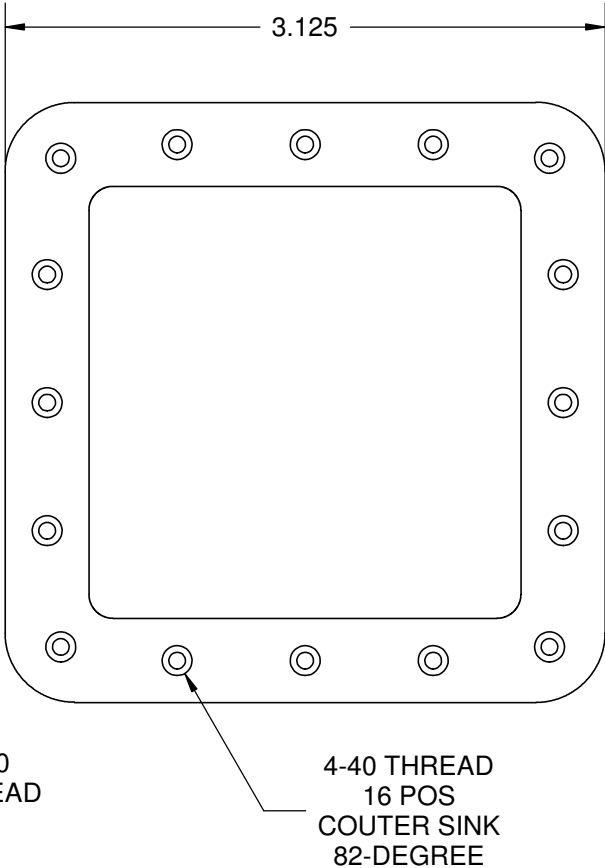
TOP



EDGE



BOTTOM

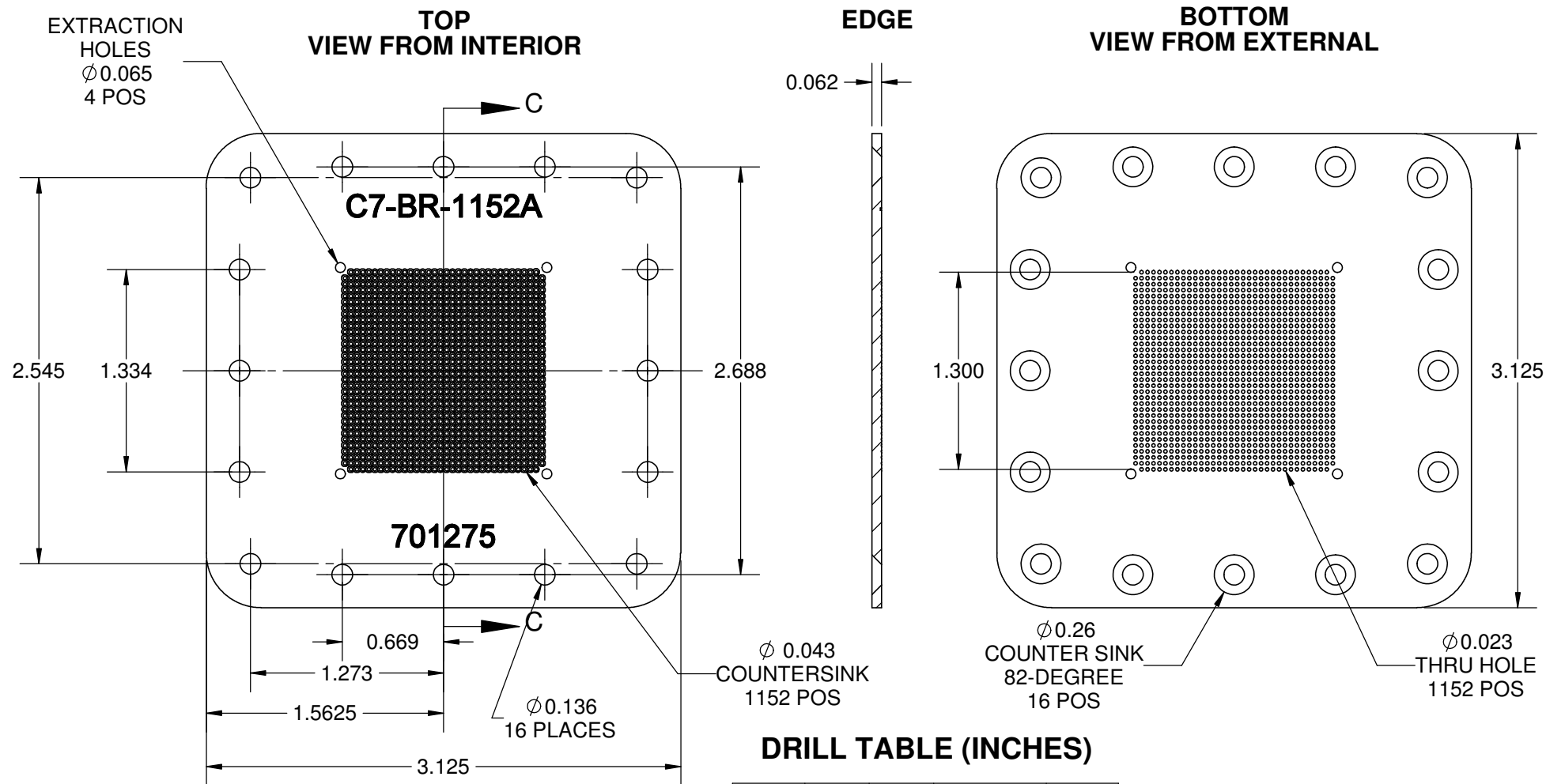


TopLine®

TITLE C7-PLANAR-1152A
CCGA LAPPING HOLDER

SCALE	SIZE	DRAWING NO.	REV
1:1	A	700275	A

BRASS ARRAY PLATE



NOTES: (Unless Otherwise Specified).

1. DIMENSION: INCHES.
2. MATERIAL: BRASS.
3. ENGRAVING DEPTH LESS THAN 0.010.

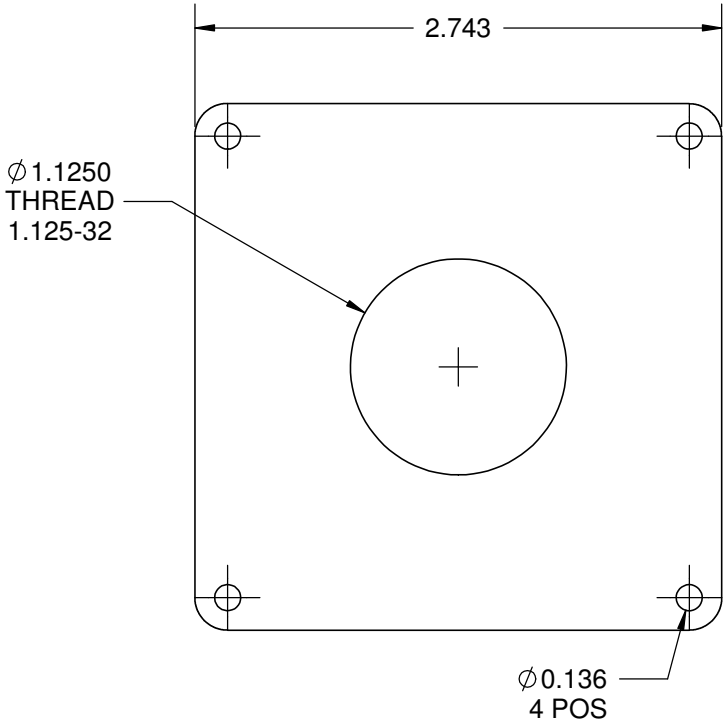
SIZE	QTY	SYM	DESC	TOL
0.065	4		THRU	±0.002
0.023	1152		THRU	±0.001
0.043	1152		COUNTER SINK 82-DEG	±0.004
0.136	16		THRU	±0.002

CCGA1152 35mm PITCH 1.0mm

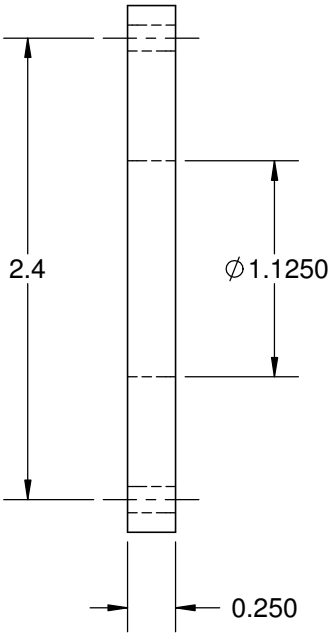
			
TITLE		C7-BR-1152A FAB DRAWING	
SCALE 1:1	SIZE A	DRAWING NO. 701275	REV A
DO NOT SCALE DRAWING			SHEET 4 OF 13

TOP PLATE

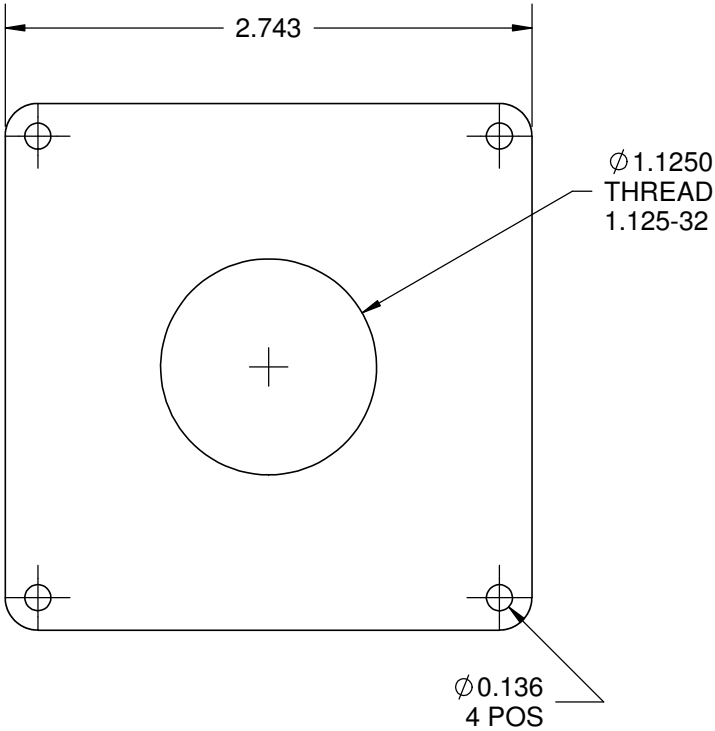
TOP



EDGE



BOTTOM

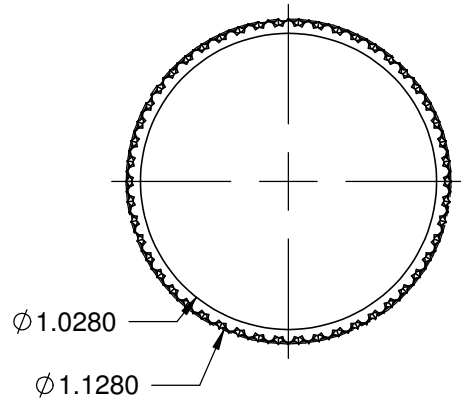


NOTES:
1) CONTROLLING DIMENSION IS INCHES.
2) MATERIAL: ALUMINUM.

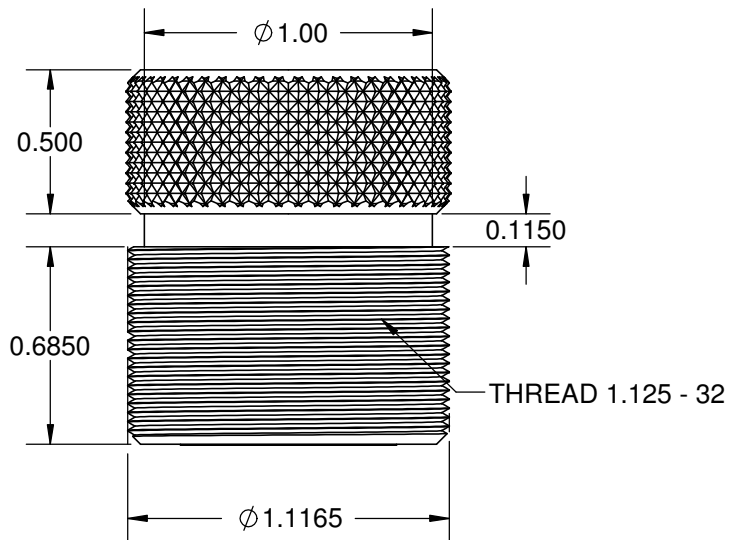
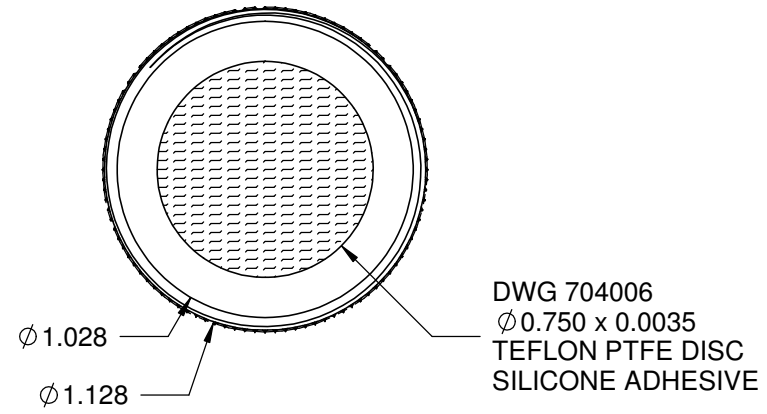
TopLine®			
TITLE C7-PLANAR-1152A CCGA LAPPING HOLDER			
SCALE 1:1	SIZE A	DRAWING NO. 700275	REV A
DO NOT SCALE DRAWING			SHEET 5 OF 13

PRESSURE ADJUSTMENT KNOB

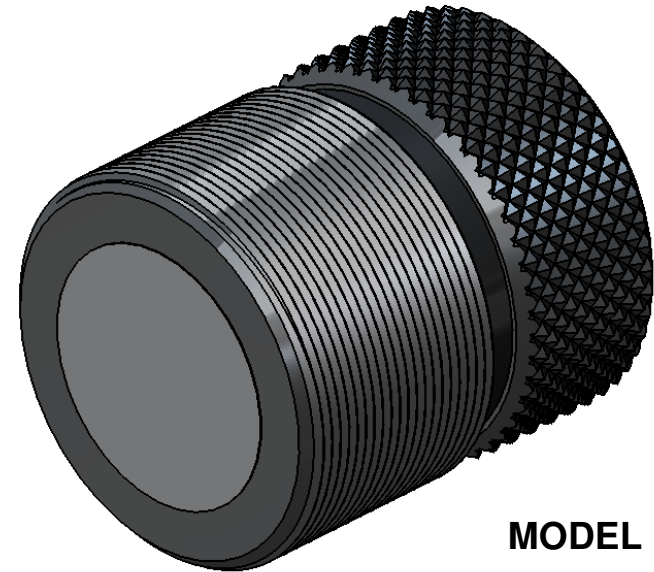
TOP



BOTTOM



SIDE



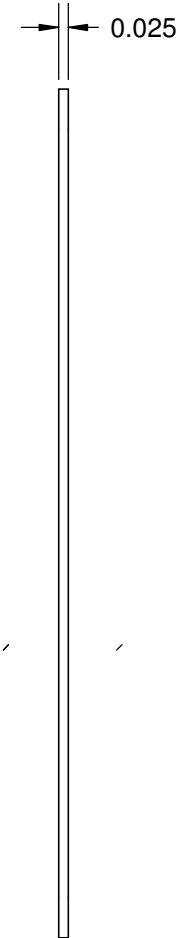
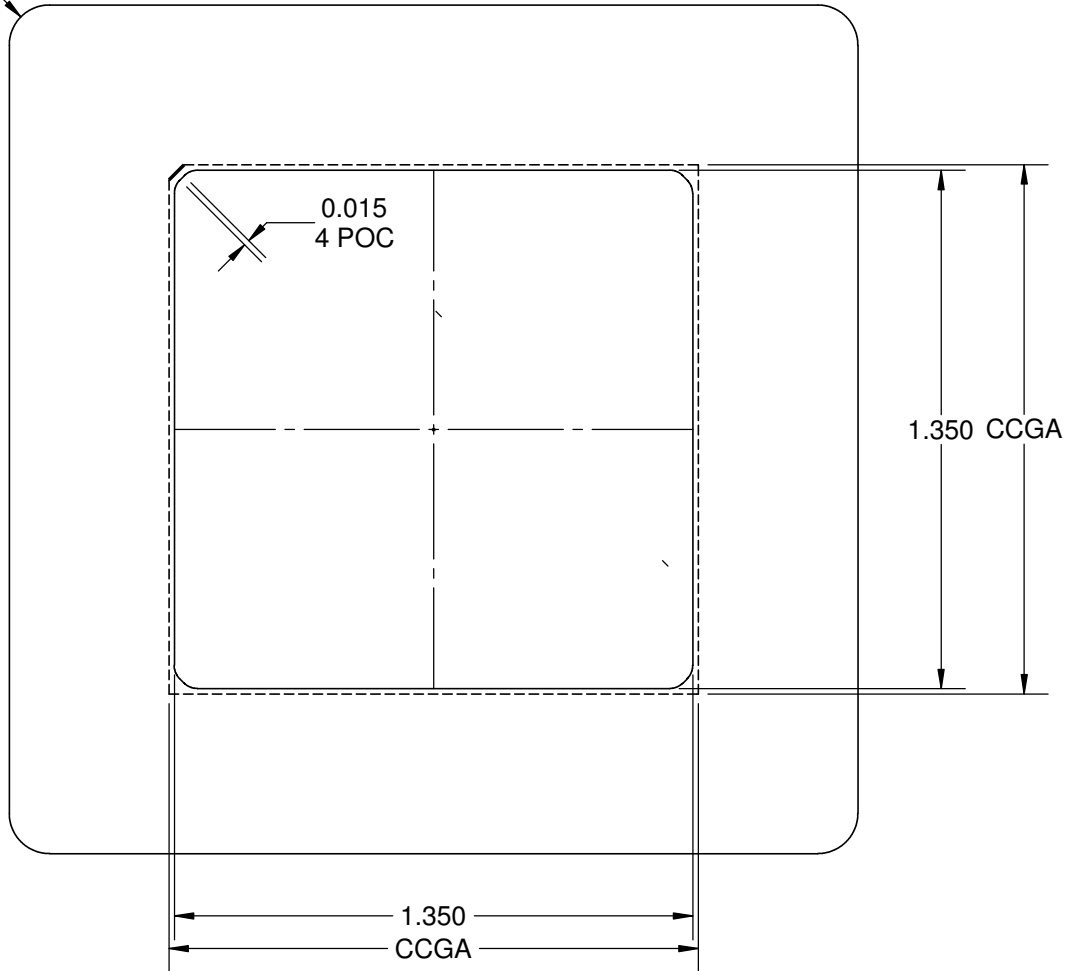
NOTES:
1. MATERIAL: Acetal Resin Homopolymer.
2. COLOR: BLACK.

TopLine®			
TITLE C7-PLANAR-1152A CCGA LAPPING HOLDER			
SCALE 3:2	SIZE A	DRAWING NO. 700202	REV A
DO NOT SCALE DRAWING			SHEET 6 OF 13

TOP

SIDE

R0.105
4 POS



NOTES: (Unless Otherwise Specified).
1. DIMENSION: INCHES.

TopLine®

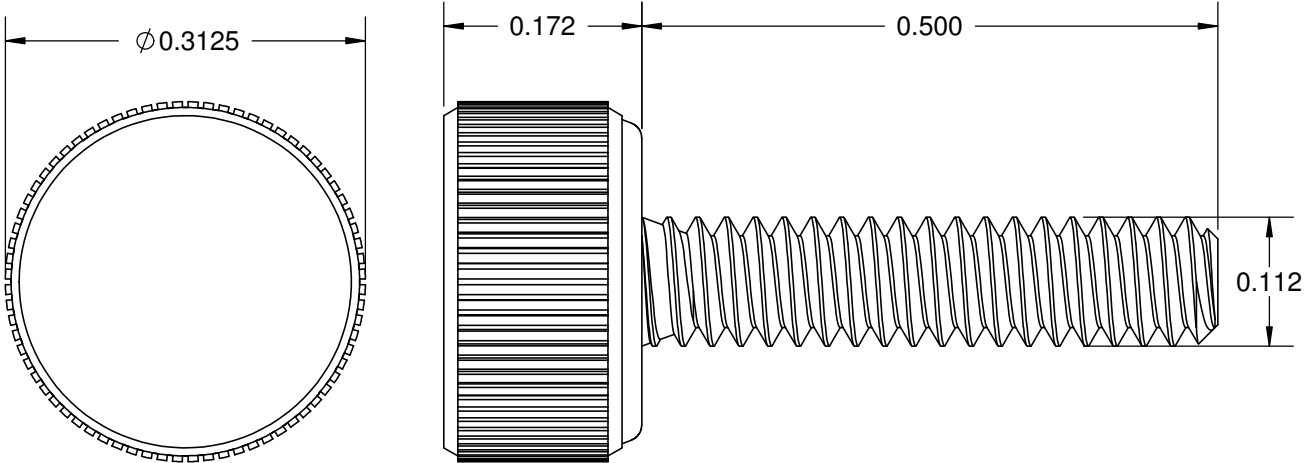
TITLE C7-SHIM-1152A
CCGA LAPPING HOLDER

SCALE 16:1	SIZE A	DRAWING NO. 725275	REV A
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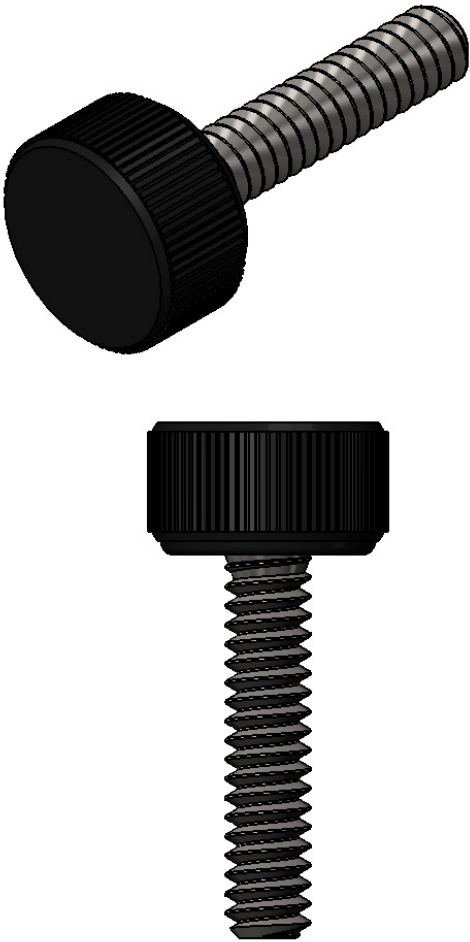
DO NOT SCALE DRAWING

SHEET 1 OF 1

HARDWARE
PLASTIC KNURLED HEAD THUMB SCREW



MODELS

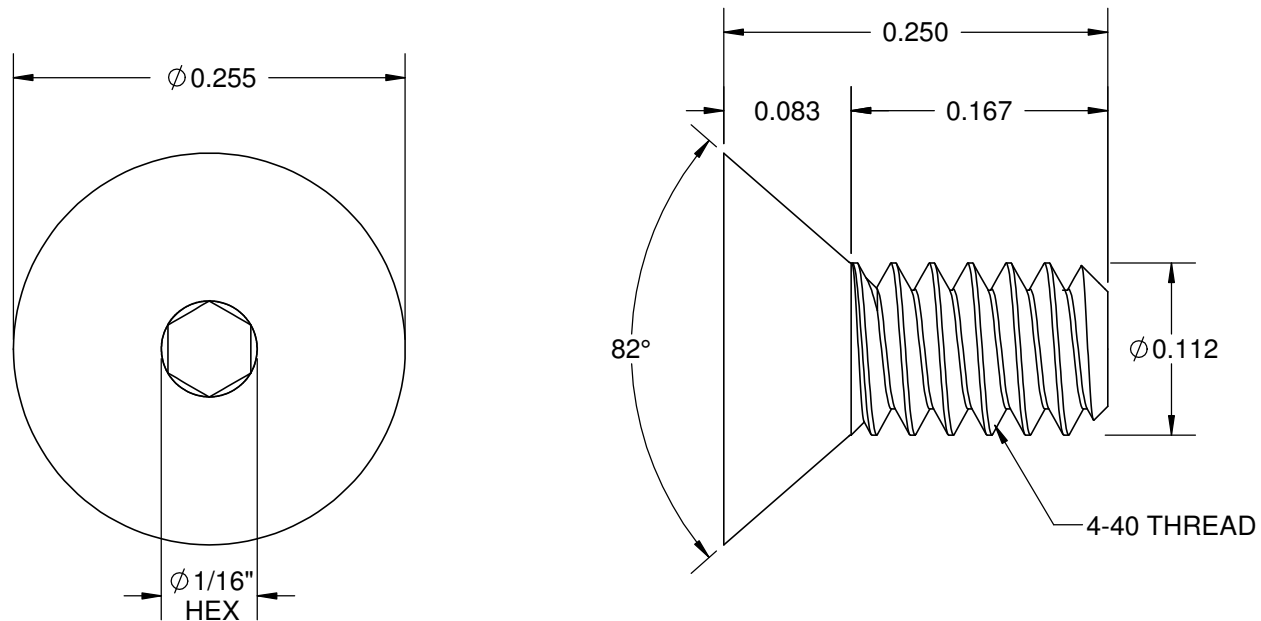


- NOTES:
- 1. DIMENSIONS INCHES (UNLESS OTHERWISE SPECIFIED).
 - 2. SHAFT MATERIAL 18-8 STAINLESS STEEL.
 - 3. HEAD: PLASTIC.
 - 4. COLOR: SEE TABLE.

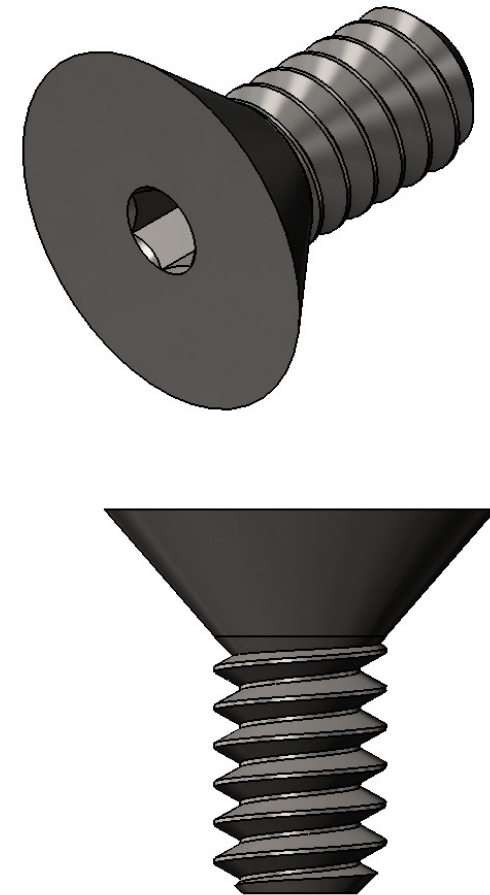
DRILL TABLE						
HEAD COLOR	THREAD	MAX OD	TAP DRILL Start Hole	CL HOLE Loose Fit	L SHAFT	DWG
BLACK	4-40	0.112"	0.089"	0.136"	0.500	704028

TopLine®			
TITLE KNURL THUMB SCREW 4-40 PLASTIC HEAD .500" L			
SCALE 6:1	SIZE A	DRAWING NO. 704028	REV A
DO NOT SCALE DRAWING			SHEET 8 OF 13

HARDWARE FLAT HEAD SOCKET CAP SCREW



MODELS



- NOTES:
1. DIMENSIONS INCHES (UNLESS OTHERWISE SPECIFIED).
 2. SHAFT MATERIAL: SEE TABLE.
 3. HEAD: SEE TABLE.
 4. COLOR: STAINLESS.

DRILL TABLE

MATL	THREAD	MAX OD	TAP DRILL Start Hole	CL HOLE Loose Fit	L SHAFT	DWG
STAINLESS 316	4-40	0.112"	0.089"	0.136"	0.167"	704038

TopLine®

TITLE FLAT HEX HEAD SCREW
4-40 x 3/16"

SCALE
6:1

SIZE
A

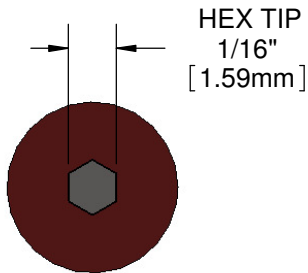
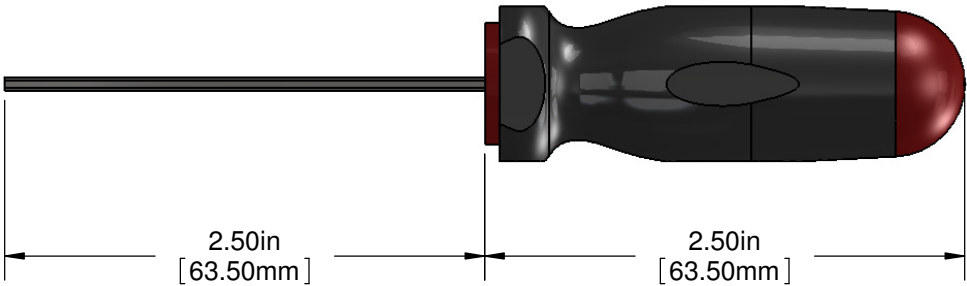
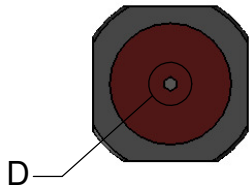
DRAWING NO.
704038

REV
A

DO NOT SCALE DRAWING

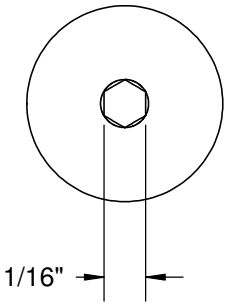
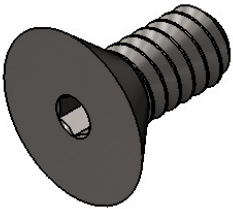
SHEET 9 OF 13

SCREW DRIVER
HEX 1/16



DETAIL A
SCALE 4:1

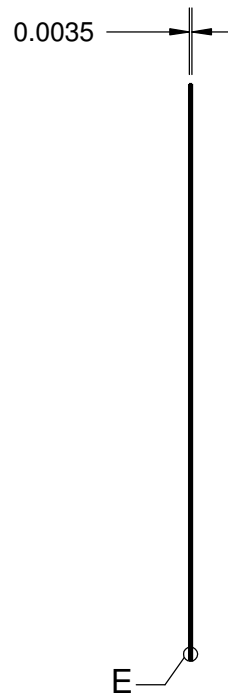
EXAMPLE SCREW
HEX 1/16"
SCALE = 4:1



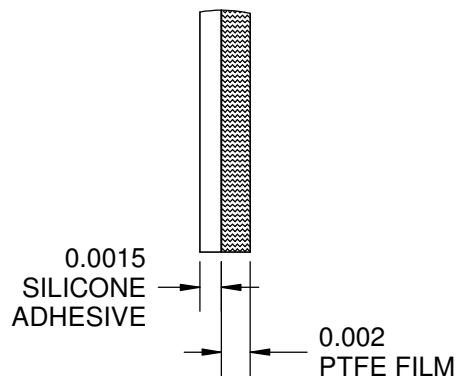
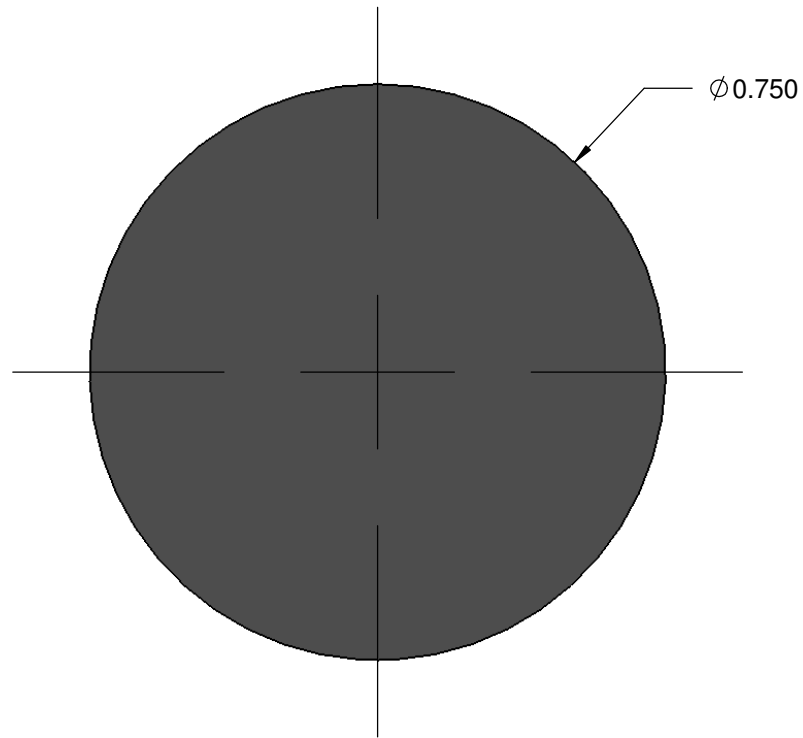
NOTES: (UNLESS OTHERWISE SPECIFIED).
1) DIMENSIONS: INCH [MM].

TopLine®			
TITLE		SCREW DRIVER 1/16 HEX HEAD	
SCALE 1:1	SIZE A	DRAWING NO. 704000	REV A
DO NOT SCALE DRAWING			SHEET 10 OF 13

PTFE TEFLON DISC



DETAIL E
SCALE 75 : 1



NOTE:
 1) DIMENSIONS INCHES.
 2) COLOR GRAY PTFE FILM DISC.
 3) REPLACE DISC AFTER PROCESSING 50pcs CCGA
 OR MORE FREQUENTLY, AS REQUIRED.

TopLine®

TITLE TEFLON DISC PAD
0.75-INCH

SCALE 4:1	SIZE A	DRAWING NO. 704006	REV A
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DO NOT SCALE DRAWING

SHEET 11 OF 13

SPARE PARTS AND ACCESSORIES

NBR	ITEM	DESCRIPTION AND NOTES	DETAIL DWG
1	TEFLON PAD	REDUCES MARRING OF CCGA. REPLACE EVERY 50 CCGA, OR AS REQUIRED	704006
2	SCREW DRIVER	SCREW DRIVER FOR 1/16" HEX HEAD SCREWS ON BRASS PLATE ARRAY	704000
3	FLAT HEAD SCREWS	HEX-FLAT HEAD STAINLESS STEEL SCREWS 4-40 THREAD 1/4" LONG (1/16" HEX SLOT)	704042
4	THUMB SCREWS	PLASTIC KNURL HEAD THUMB SCREWS 4-40 THREAD 1/2" LONG	704028
5	PRESSURE ADJUSTMENT THREADED KNOB	THREADED KNOB SCREW 1.125-32 THREAD	700200
6	C7-SHIM-1152A	0.025" THICK (0.63mm) FOR 0.087" (2.21mm) LONG COLUMN	725275
7	BRASS PLATE C7-BR-1152A	PATTERN OF ARRAY AND LOCATION OF EXTRACTION HOLES ARE SPECIFIC TO CCGA DEVICE.	701275
8	ALUMINUM FRAME	UNIVERSAL LAPPING TOOL HOLDER 3.125" x 0.750"	700240
9	TOP PLATE	UNIVERSAL TOP PLATE LAPPING TOOL HOLDER 2.743" x 0.250"	700241
10	EJECTION TOOL C7-EJECT-1152A	GENTLY LIFTS CORNERS OF CCGA SUBSTRATE TO EXTRACT AND REMOVE CCGA FROM LAPPING TOOL	702275

*NOTE: CONTACT TOPLINE FOR OTHER SHIM.

TopLine®

TITLE C7-PLANAR-1152A
CCGA LAPPING HOLDER

SCALE NONE	SIZE A	DRAWING NO. 700275	REV A
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DO NOT SCALE DRAWING

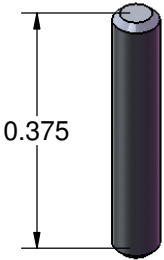
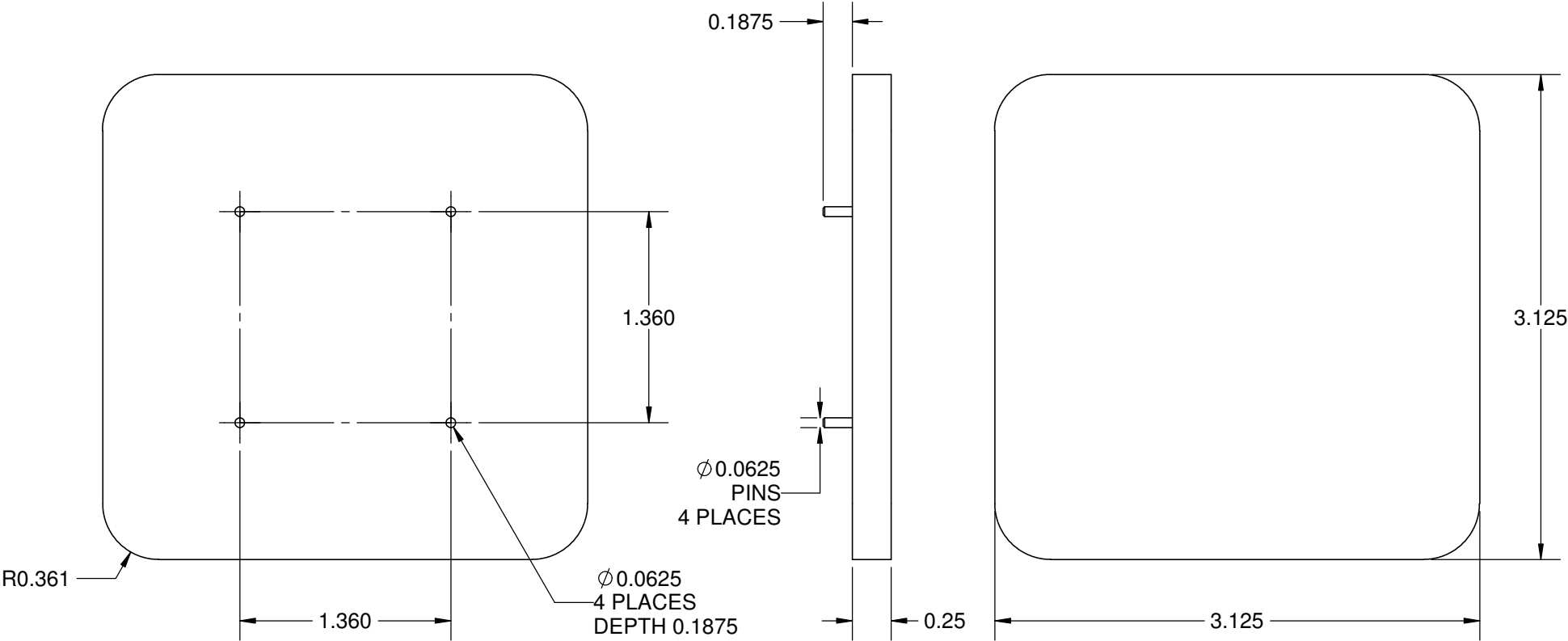
SHEET 12 OF 13

C7-EJECT-1152A
EJECTOR PLATE

TOP

SIDE

BOTTOM



Ø0.0625
PINS

NOTES:
1) DIMENSIONS INCHES [mm].
2) MATERIAL: ALUMINUM or FR4

TopLine®			
TITLE		C7-EJECT-1152A EJECTOR PLATE	
SCALE	SIZE	DRAWING NO.	REV
1:1	A	702275	A
DO NOT SCALE DRAWING			SHEET 13 OF 13