

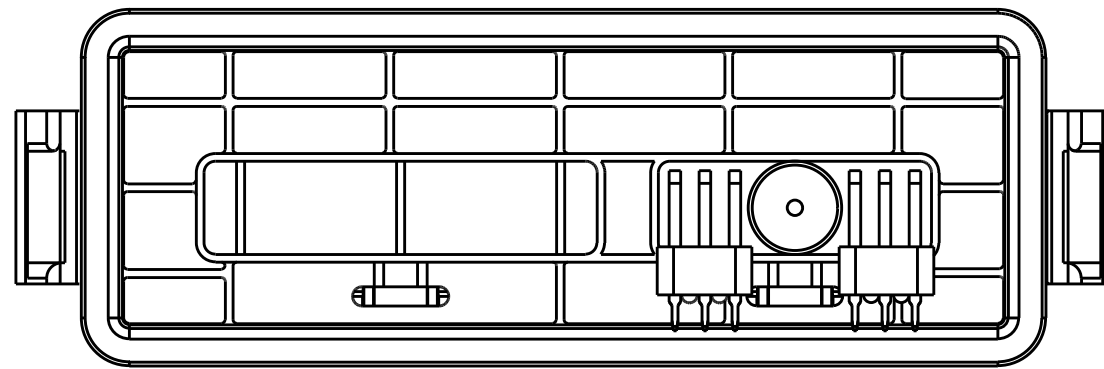
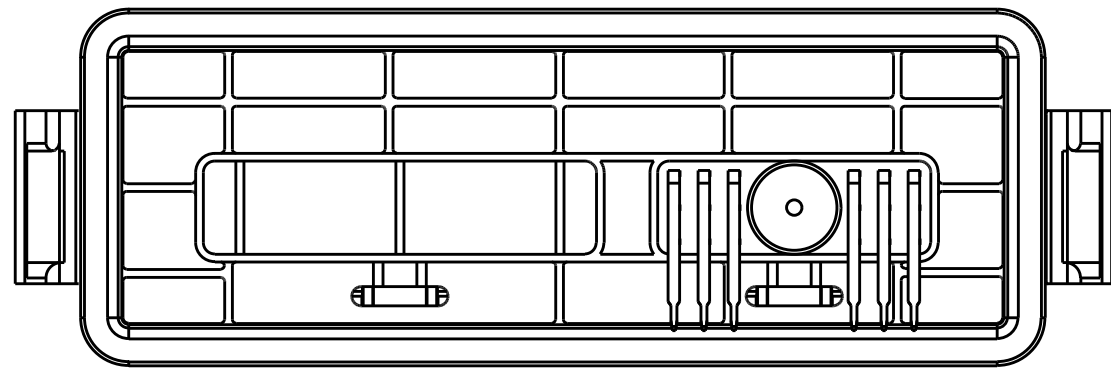
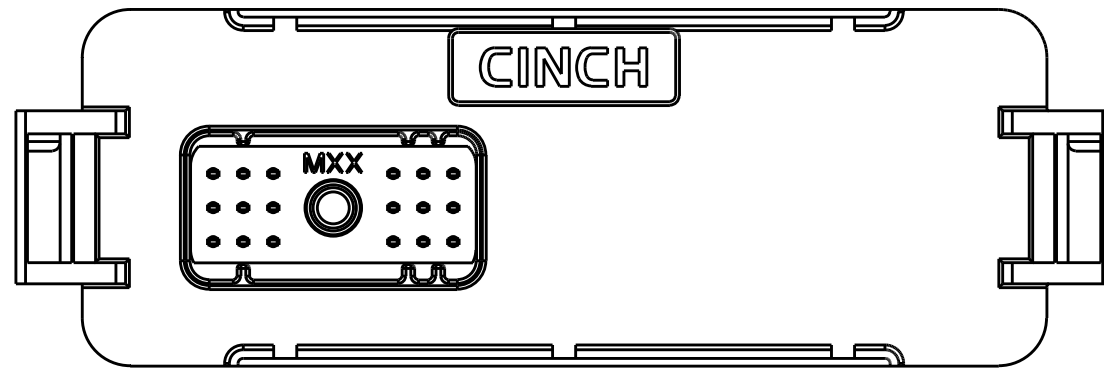
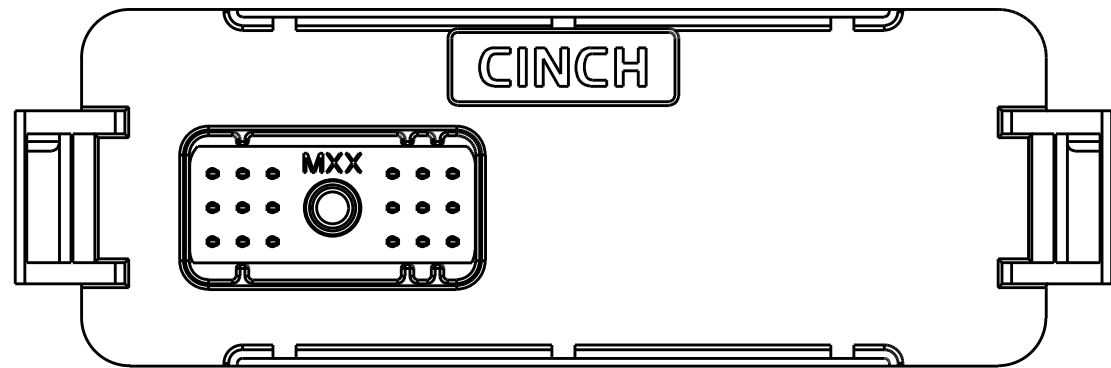
CINCH PART NUMBER MATRIX

P/N: 581 01 18 032

P/N: 581 01 18 033

18-WAY HEADER ASSEMBLY WITHOUT FERRITE FILTERS

18-WAY HEADER ASSEMBLY WITH FERRITE FILTERS



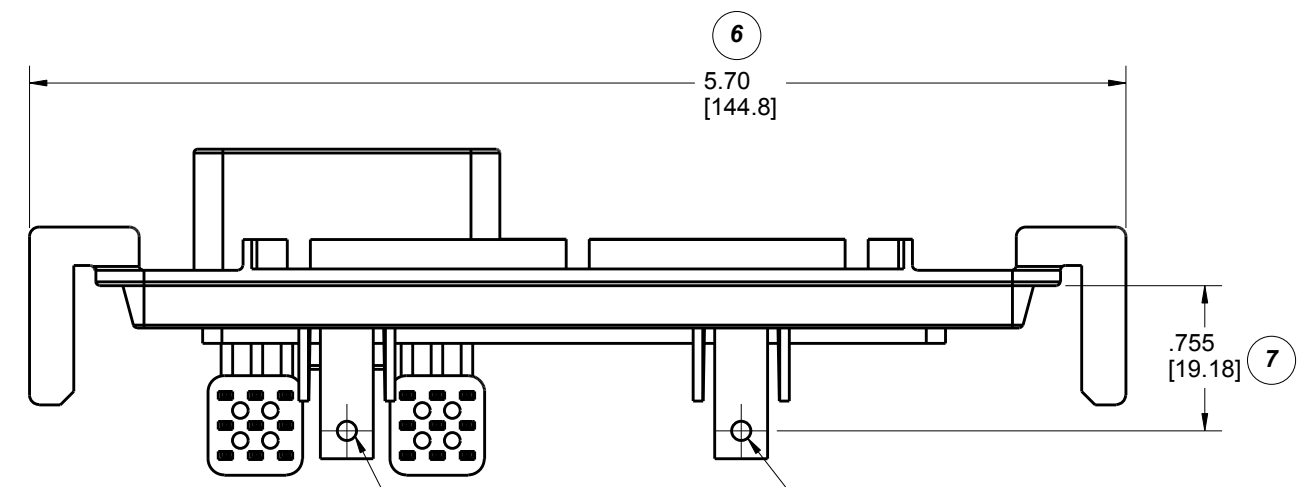
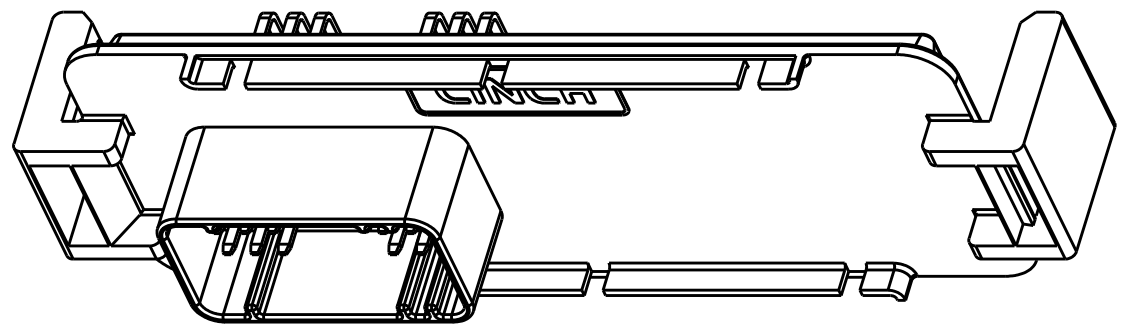
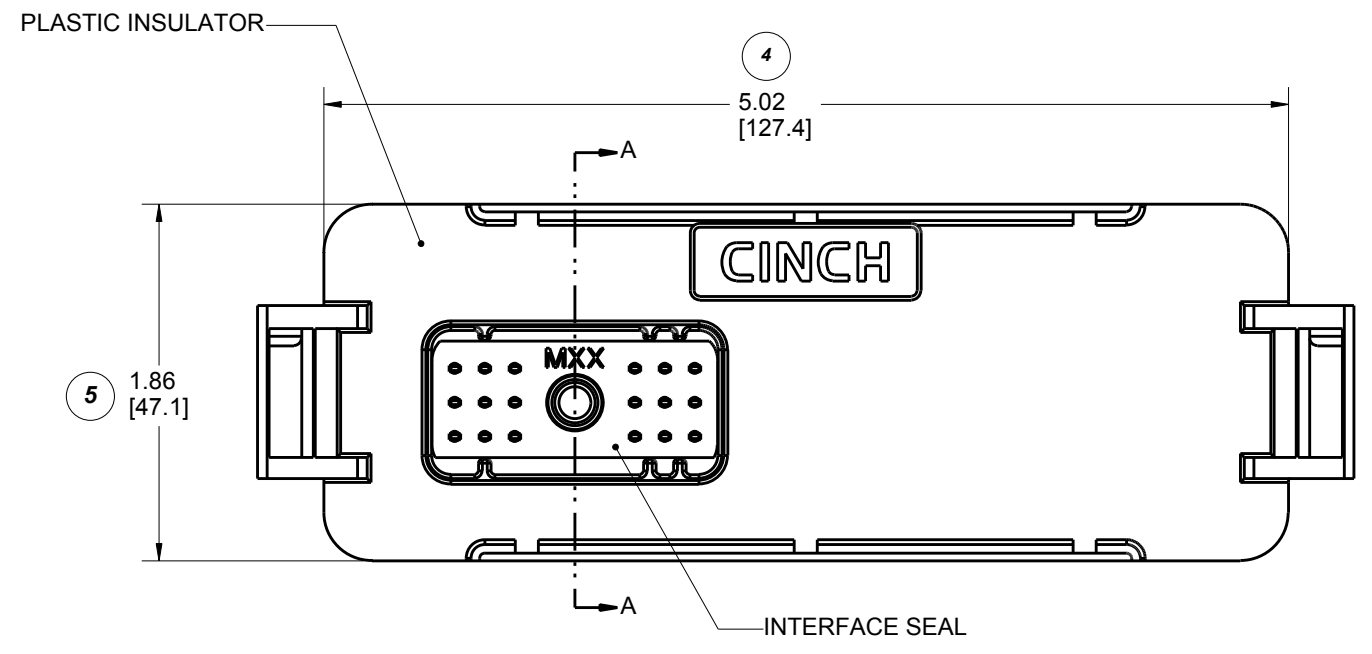
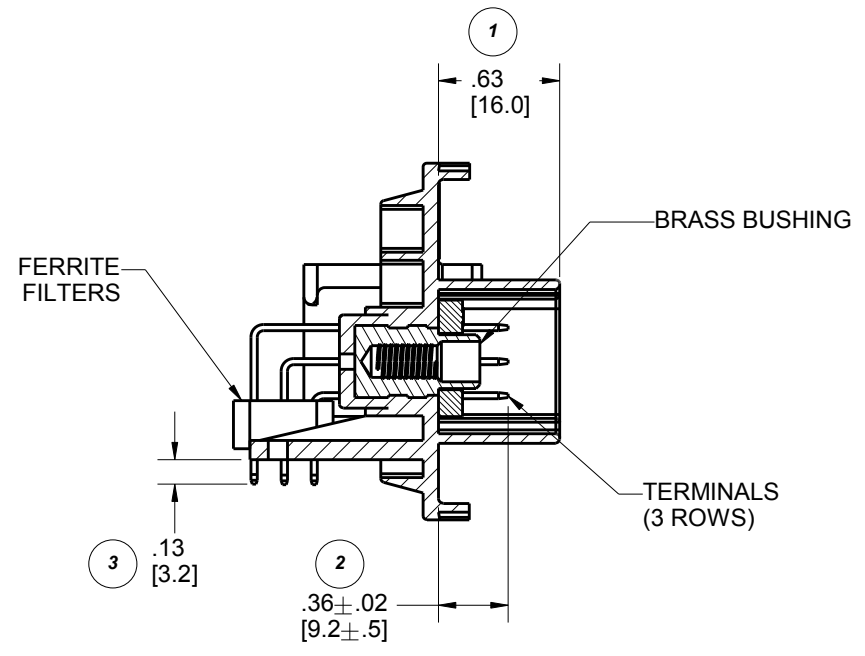
MATES WITH CINCH HARNESS CONNECTORS P/N:
581 01 18 023 (18-WAY)

DRAWING REVISIONS			
REV	DOCUMENT	APP	DATE
A	REL. FOR PRODUCTION D.O. 05-1157	A.C.	7/21/05
B	ECN: 05A468 ADDED LEGS AND ADDED SLOTS TO RIBS	A.C.	9/27/05
C	ECN: 06A032 ADDED SHEET 5 ADDED SHEET 6 MODIFIED SHEET 3 MODIFIED SHEET 4	A.C.	3/23/06
D	ECN: 06A410 REFORMATTED DRAWING PCB LAYOUTS REDRAWN WITH ADDITIONAL KEEP OUT AREAS	A.C.	9/29/06
E	CO 4256	N.C.	3/31/20

NOTE:

- ALL DIMENSIONS ARE IN INCHES;
DIMENSION INSIDE [.XX] ARE IN MM, AS REF. ONLY.
- MATERIALS:
INTERFACE SEAL: SILICONE RUBBER, COLOR BLUE;
INSULATOR: 30 % GLASS FILLED POLYMER, COLOR BLACK;
BUSHING: BRASS ALLOY, UNPLATED 10-24 UNC THREAD;
TERMINAL BLADE: 1.5 MM BRASS WITH TIN OVER NICKEL PLATING;
FILTERS: FERRITE BLOCKS.
- ALL HEADERS ARE REFLOW OR WAVE SOLDERING PROCESS, ROHS COMPLIANT.
- MATES WITH CINCH SHS PUSH-TO-SEAT HARNESS CONNECTORS (SEE TABLE ABOVE).
- THERMALLY CONDUCTIVE ADHESIVE PASTE SOLD SEPARATLY: RECOMMENDED IS LOCTITE 383.
- MOSFET SPRING PLATES ARE SOLD SEPARATLY (FOR INSTALLATION REFER TO ENCLOSURE ASSEMBLY INSTRUCTIONS)
SPRING LABELED AS "L" IS CINCH P/N: 581 00 00 020 AND SPRING LABELED AS "R" IS CINCH P/N: 581 00 00 021.
(IT IS RECOMMENDED THAT THE 4 SLOTS BE PROTECTED DURING CONFORMAL COATING)
- STANDARD PACKAGE SIZE: 72 PARTS/CARTON BOX.

UNITS		RoHS COMPLIANT		MODELED BY:	
ENGLISH		PRO/E		CINCH	
DO NOT SCALE DRAWING		DRAWN BY	DATE	TITLE	
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		B. KOSTIC	09/03/04	18-WAY HEADERS MODICE SE	
FILLET/RADII .02 MAX		DESIGN ENGINEER		MATERIAL	
TOLERANCES .X ± .1 .XX ± .01 .XXX ± .005 ANGULAR ± .5°		B. KOSTIC	09/03/04	SEE NOTE 2.	
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH		DESIGN ENGINEERING MGR.		MATERIAL SPEC NUMBER	
		A. CAINES	11/18/04	FINISH	
		MFG. ENGINEERING		PROJECT NUMBER	
		R. GARZA	11/18/04	A 14562	
		QUALITY ASSURANCE		CAD FILE NUMBER	
		R. QUIROZ	11/18/04	5810118032S_HEADERS	
				DRAWING NUMBER	
				581 01 18 032 S	
				CAGE IDENT NO.	
				71785	
				SIZE	
				B	
				SCALE	
				1:1	
				SHEET 1 OF 6	



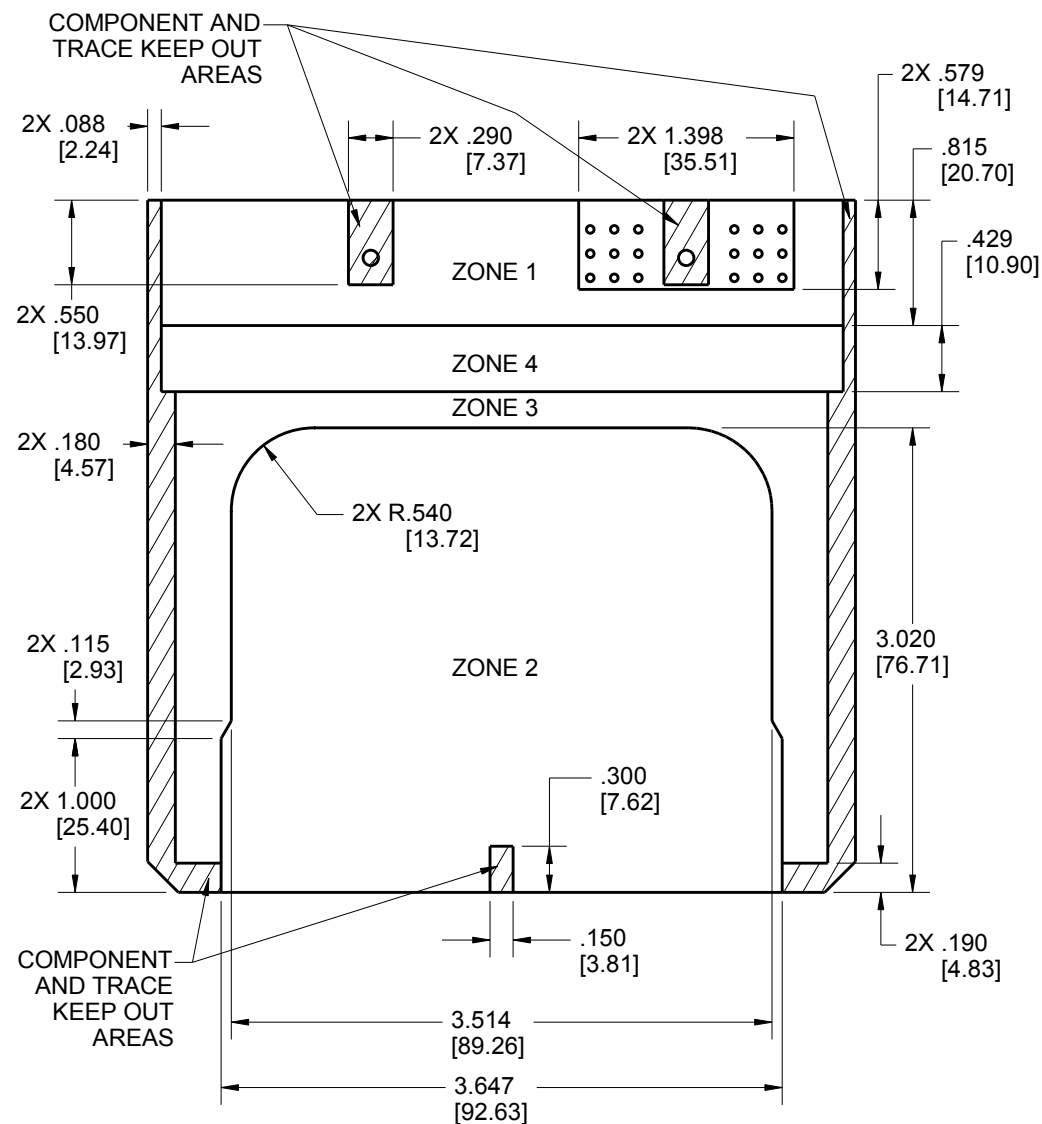
CINCH P/N: 581 01 18 033 SHOWN (HEADER WITH FILTERS)

FOR PCB MOUNTING, #4 SELF-TAPPING SCREW IS RECOMMENDED, TORQUE: 2-3 IN*LBS. [0.23-0.34 Nm]

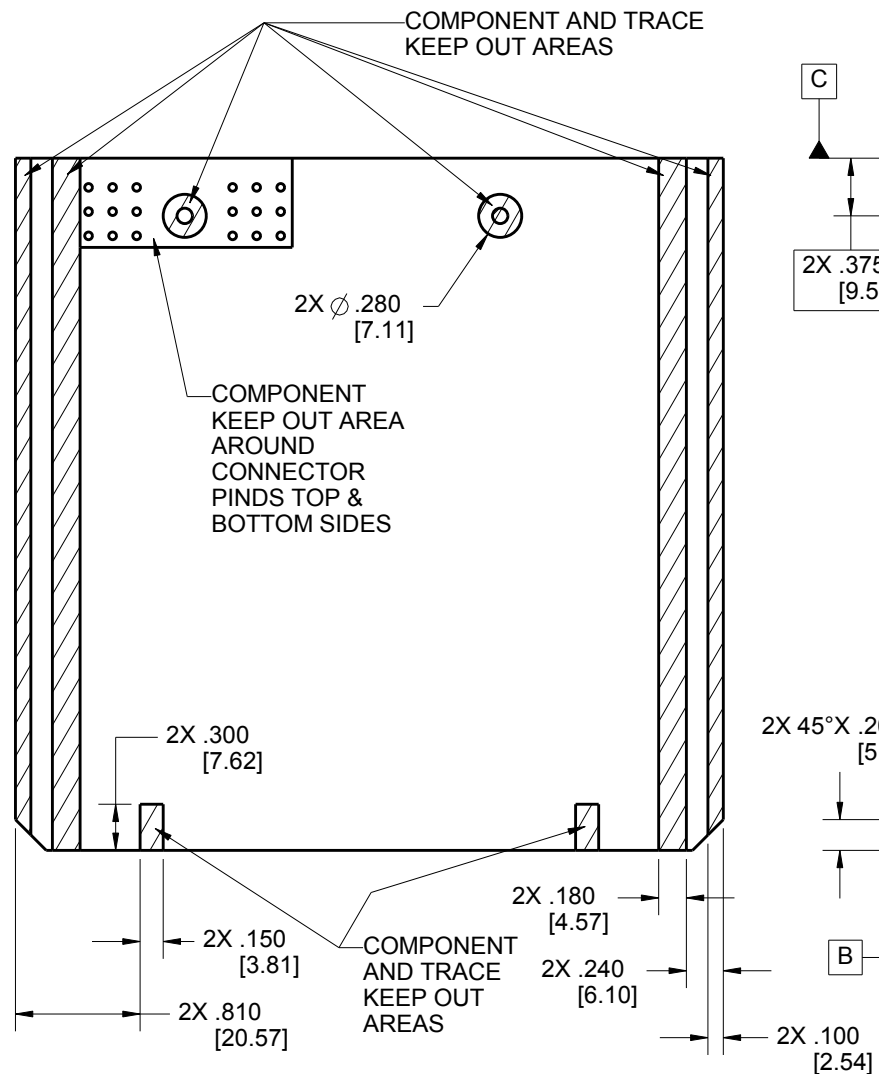
UNITS ENGLISH		CINCH		1700 FINLEY RD LOMBARD, IL 60148	
DO NOT SCALE DRAWING		TITLE 18-WAY HEADERS MODICE SE			
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		PRO/E DRAWING			
FILLET/RADII .02 MAX		TOLERANCES X ± 1 XX ± .01 XXX ± .005 ANGULAR ± .5°		CAD FILE NUMBER 5810118032S_HEADERS	DRAWING NUMBER 581 01 18 032 S
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH		CAGE IDENT NO. 71785	SIZE B	SCALE 1:1	REV E
THIS DOCUMENT IS THE PROPERTY OF CINCH. NEITHER THIS DOCUMENT NOR ANY OF THE INFORMATION CONTAINED IN IT MAY BE DUPLICATED OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF CINCH.		SHEET 2 OF 6			

PCB LAYOUT WITHOUT HEAT SINKS

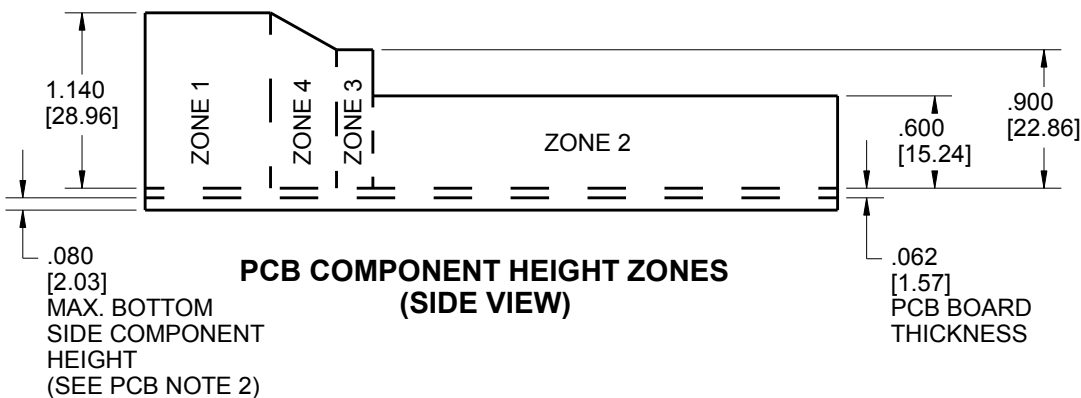
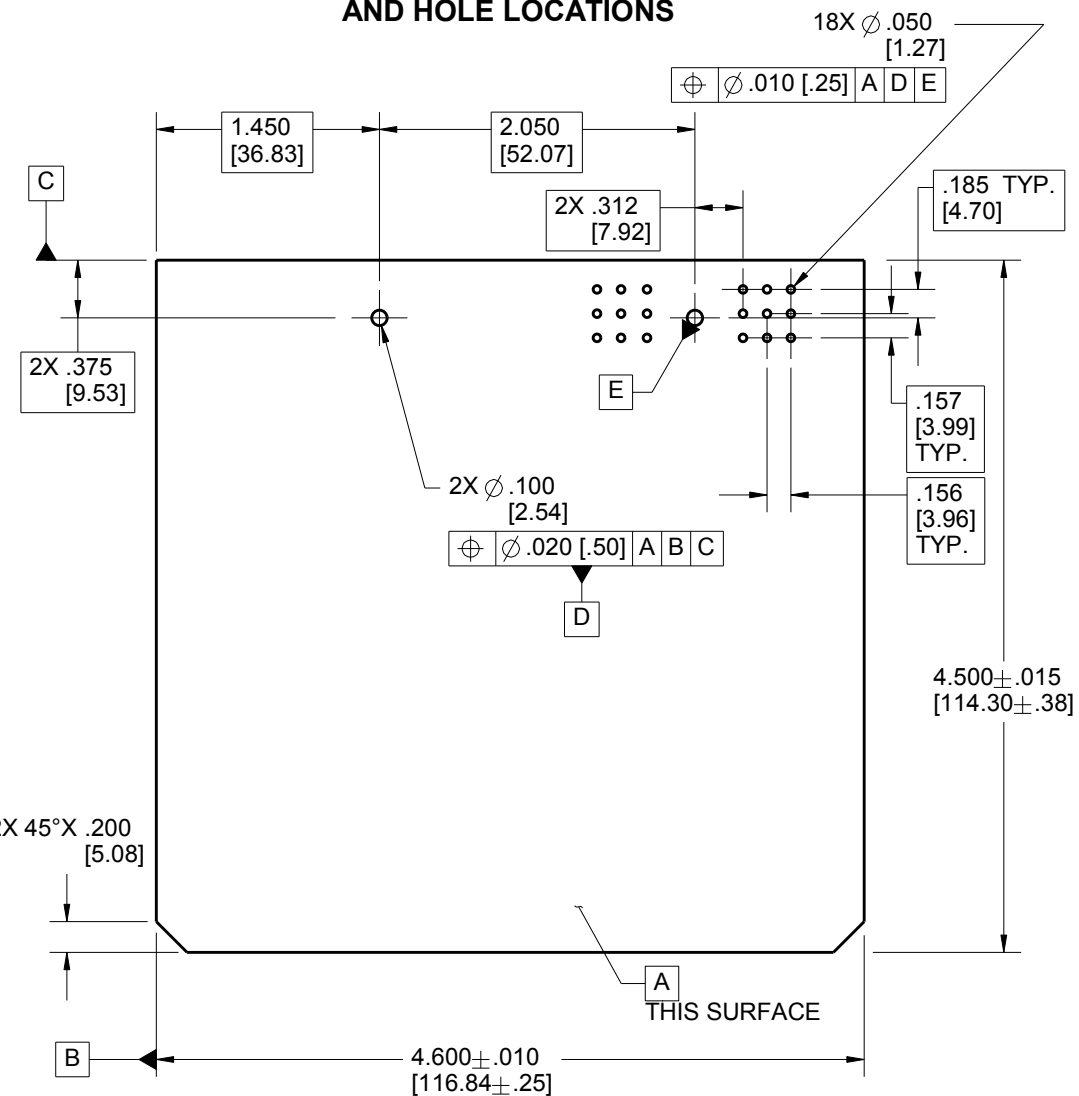
PCB TOP SIDE GENERAL ZONING & KEEP OUT AREAS



PCB BOTTOM SIDE GENERAL ZONING & KEEP OUT AREAS



PCB OVERALL DIMENSIONS AND HOLE LOCATIONS



PCB COMPONENTS HEIGHT LIMIT				
	ZONE 1	ZONE 2	ZONE 3	ZONE 4
MAX. HEIGHT FOR COMPONENTS (ABOVE PCB)	1.140"	.600"	.900"	SEE PCB NOTE 3

PCB NOTES:

- ON BOTTOM SIDE OF THE PCB, COMPONENTS OR TRACES MUST BE MIN. .100" AWAY FROM THE EDGE OF THE PCB.
- THE BOTTOM SIDE OF THE PCB SHOULD NOT HAVE COMPONENTS OR LEADS THAT EXTEND HIGHER THAN .080" (SEE PG. 6 SIDE VIEW).
- AREA HAS VARIABLE HEIGHT. SEE PCB COMPONENT HEIGHT ZONES VIEW FOR DETAILS.

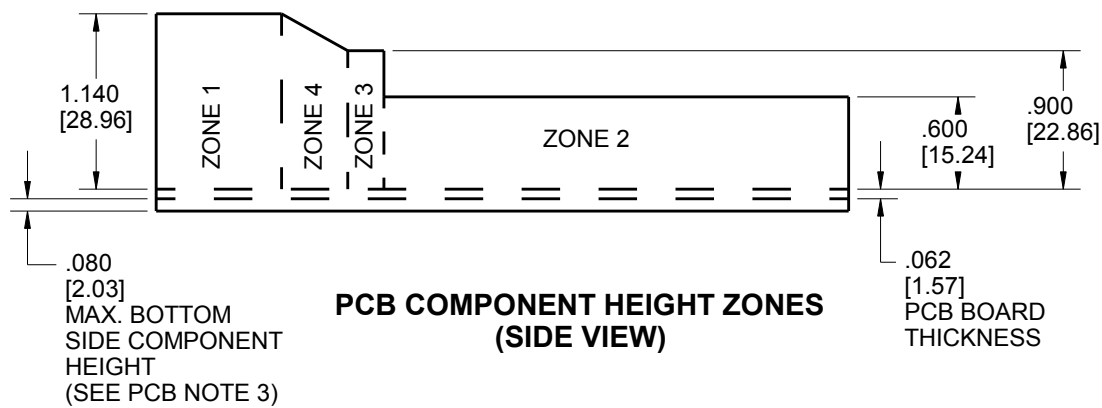
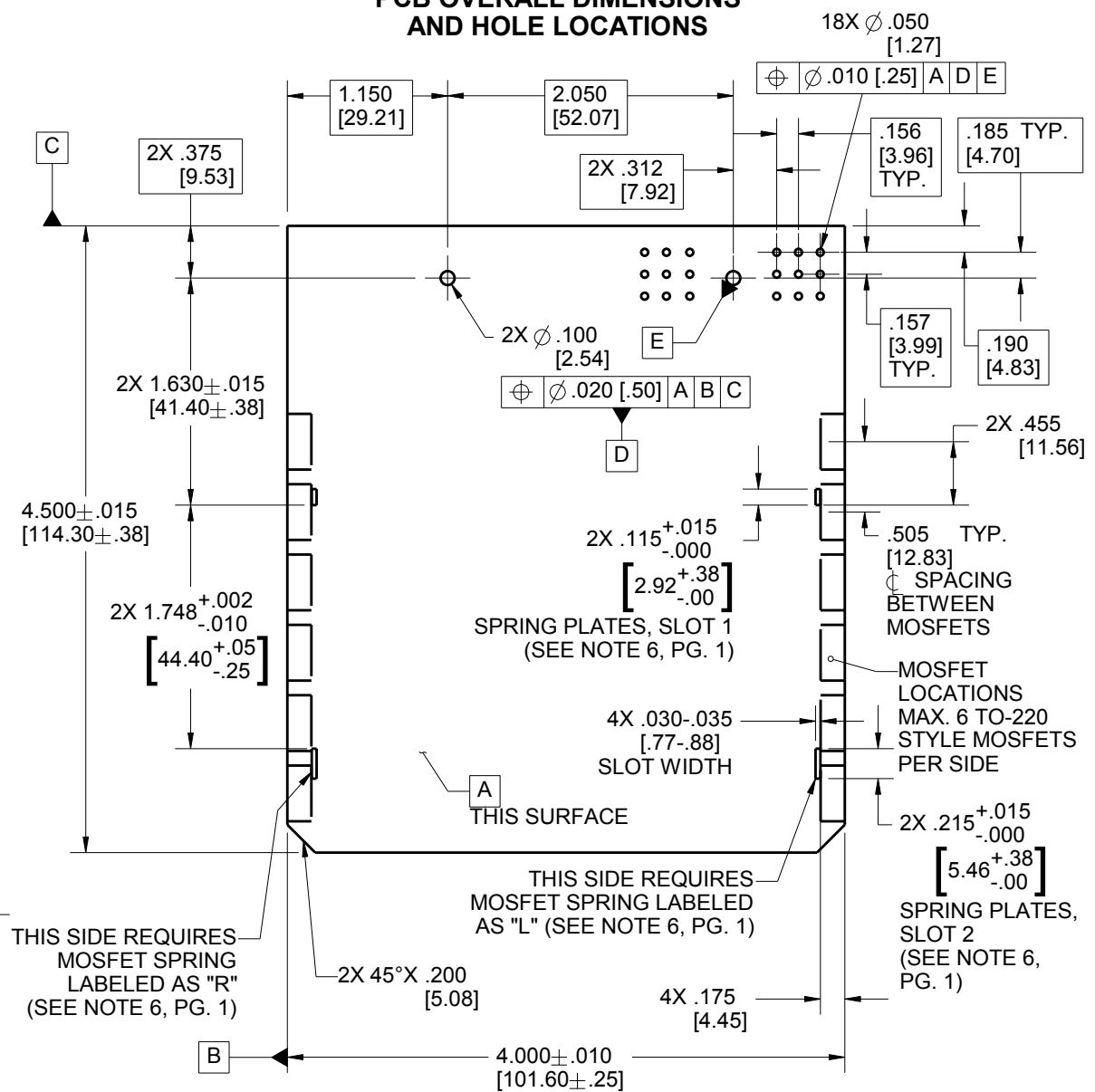
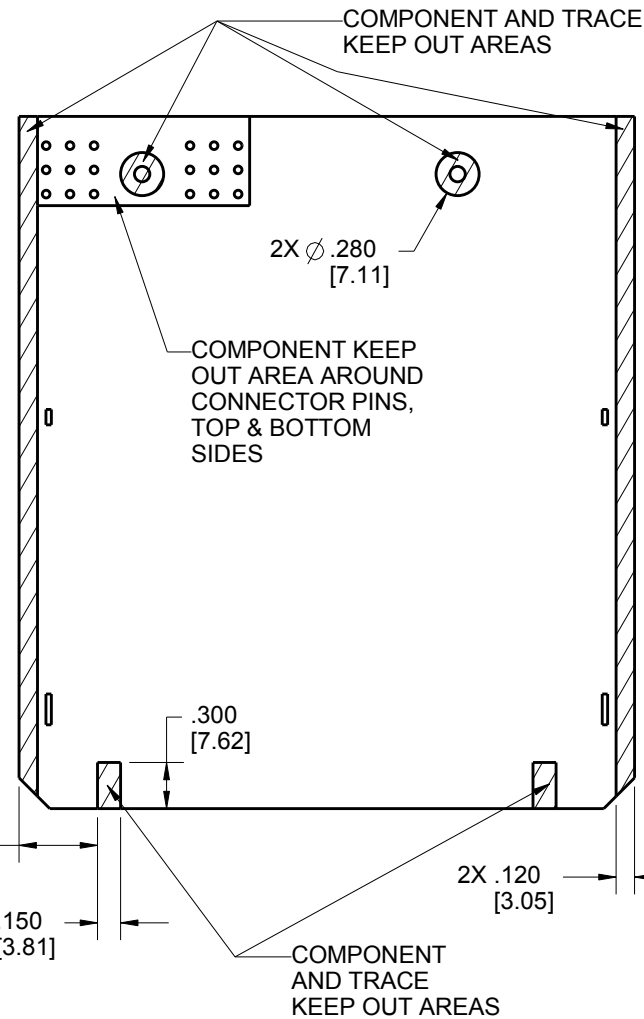
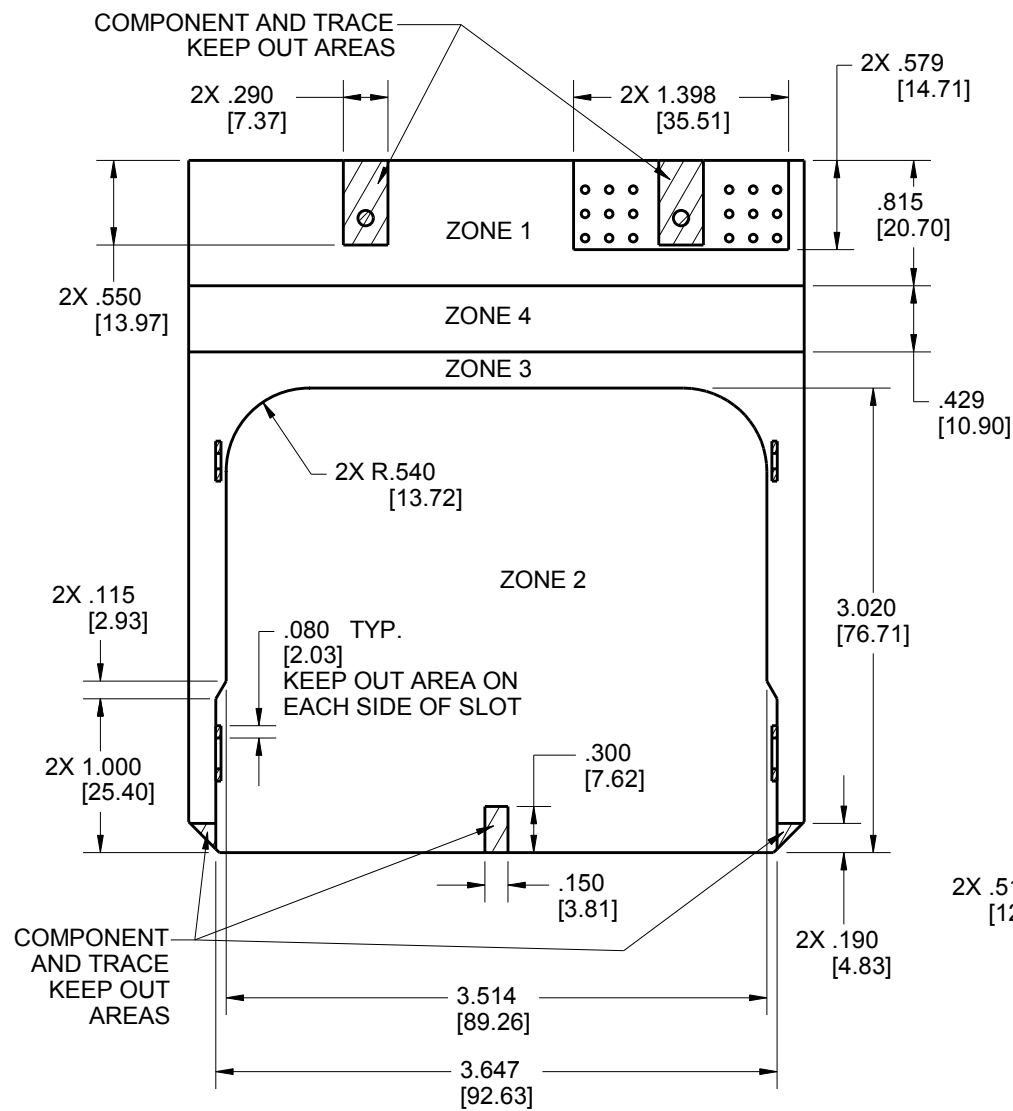
UNITS ENGLISH	CINCH		1700 FINLEY RD LOMBARD, IL. 60148
DO NOT SCALE DRAWING	TITLE 18-WAY HEADERS MODICE SE		
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES	PRO/E DRAWING		
FILLET/RADII .02 MAX	TOLERANCES X ± .1 XX ± .01 XXX ± .005 ANGULAR ± .5°	CAD FILE NUMBER 5810118032S_HEADERS	DRAWING NUMBER 581 01 18 032 S
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH	CAGE IDENT NO. 71785	SIZE B	SCALE 4:5
THIS DOCUMENT IS THE PROPERTY OF CINCH. NEITHER THIS DOCUMENT NOR ANY OF THE INFORMATION CONTAINED IN IT MAY BE DUPLICATED OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF CINCH.	SHEET 3 OF 6		REV E

PCB LAYOUT WITH TWO HEAT SINKS

PCB TOP SIDE GENERAL ZONING & KEEP OUT AREAS

PCB BOTTOM SIDE GENERAL ZONING & KEEP OUT AREAS

PCB OVERALL DIMENSIONS AND HOLE LOCATIONS



PCB COMPONENTS HEIGHT LIMIT

	ZONE 1	ZONE 2	ZONE 3	ZONE 4
MAX. HEIGHT FOR COMPONENTS (ABOVE PCB)	1.140"	.600"	.900"	SEE PCB NOTE 4

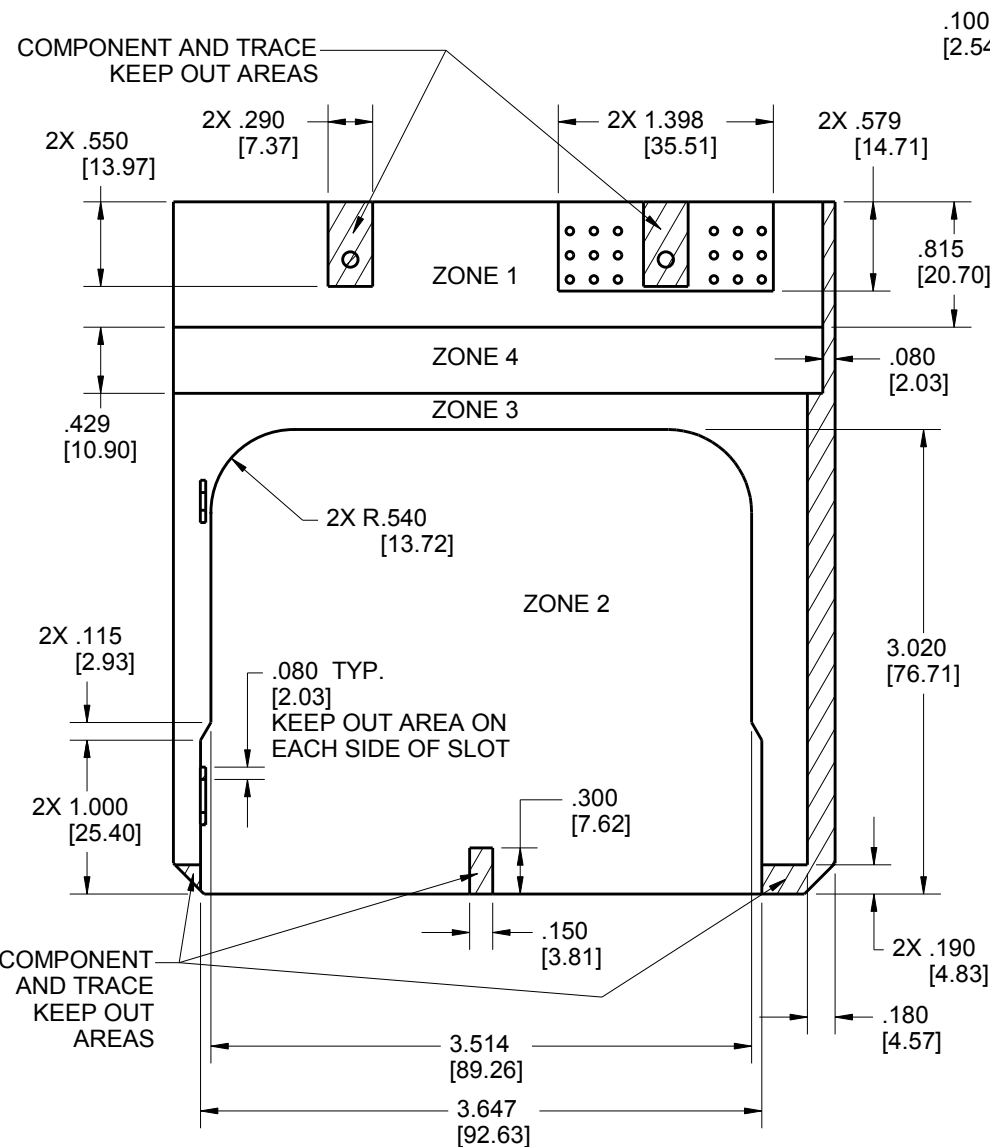
PCB NOTES:

- IF MOSFET SPRINGS ARE USED, ZONE 3 SHOULD CONTAIN ONLY MOSFETS AND TRACES BETWEEN THE SPRINGS AND EDGE OF THE BOARD.
- ON BOTTOM SIDE OF THE PCB, COMPONENTS OR TRACES MUST BE MIN. .100" AWAY FROM THE EDGE OF THE PCB.
- THE BOTTOM SIDE OF THE PCB SHOULD NOT HAVE COMPONENTS OR LEADS THAT EXTEND HIGHER THAN .080" (SEE PG. 6 SIDE VIEW).
- AREA HAS VARIABLE HEIGHT. SEE PCB COMPONENT HEIGHT ZONES VIEW FOR DETAILS.

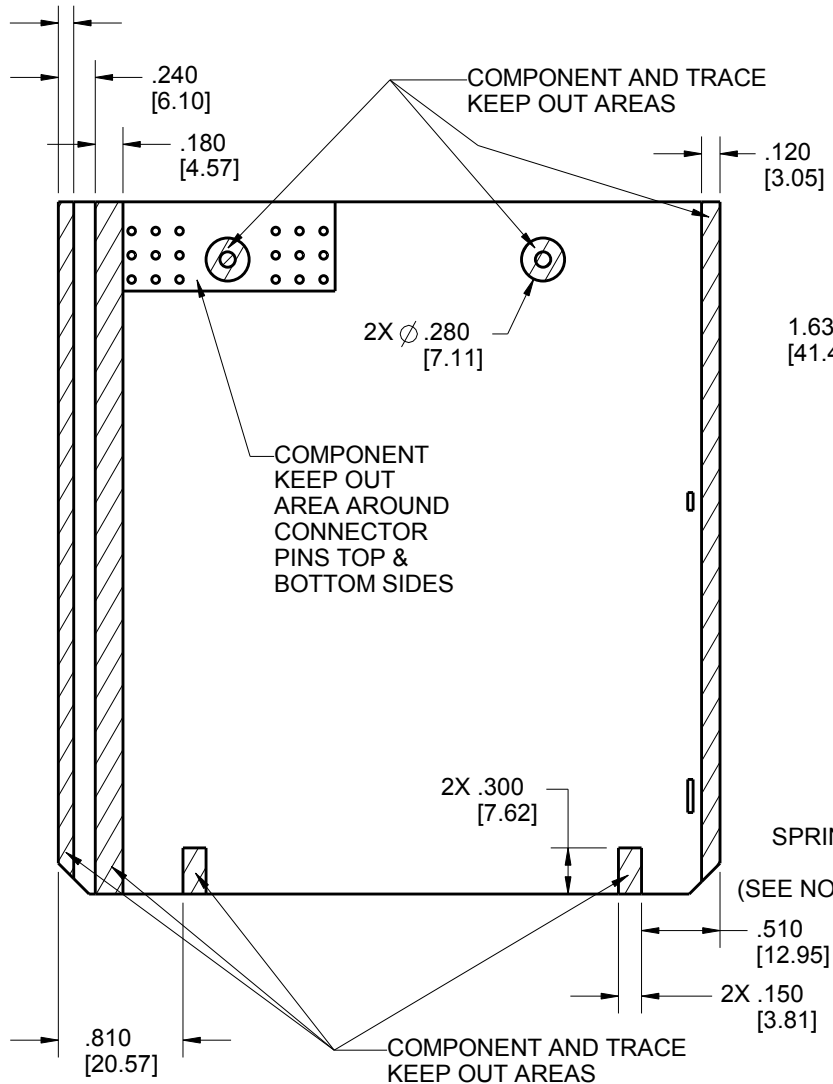
UNITS	ENGLISH		CINCH		1700 FINLEY RD LOMBARD, IL. 60148
DO NOT SCALE DRAWING			TITLE		
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES			18-WAY HEADERS MODICE SE		
FILLET/RADII .02 MAX			TOLERANCES		
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH			-X ± .1 XX ± .01 XXX ± .005 ANGULAR ± .5°		
THIS DOCUMENT IS THE PROPERTY OF CINCH. NEITHER THIS DOCUMENT NOR ANY OF THE INFORMATION CONTAINED IN IT MAY BE DUPLICATED OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF CINCH.			DRAWING NUMBER		REV
CAD FILE NUMBER			5810118032S_HEADERS		5810118032S
CAGE IDENT NO.			71785		E
SIZE			B		
SCALE			4:5		
			SHEET 4 OF 6		

PCB LAYOUT WITH ONE HEAT SINK

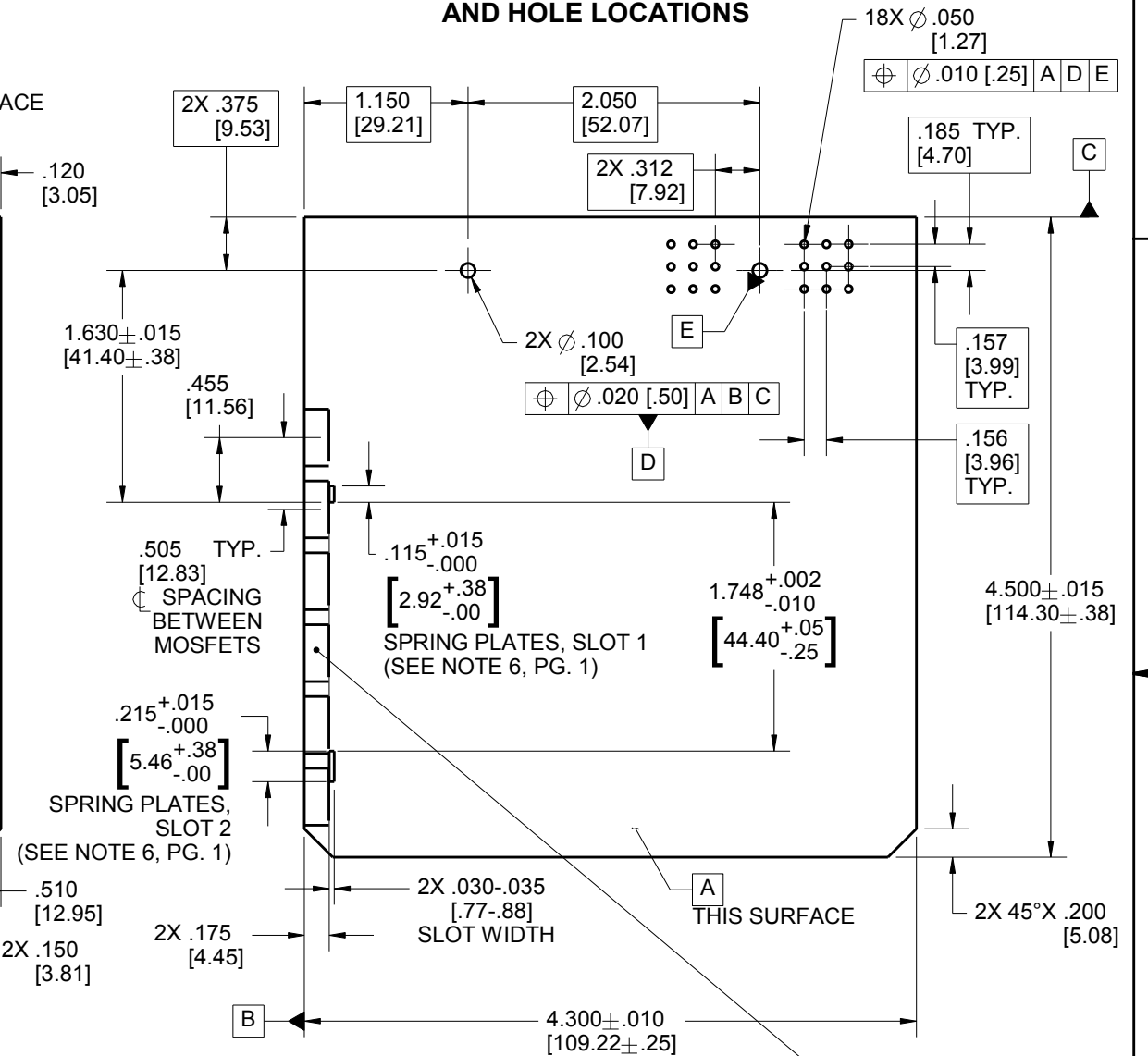
PCB TOP SIDE GENERAL ZONING & KEEP OUT AREAS



PCB BOTTOM SIDE GENERAL ZONING & KEEP OUT AREAS



PCB OVERALL DIMENSIONS AND HOLE LOCATIONS

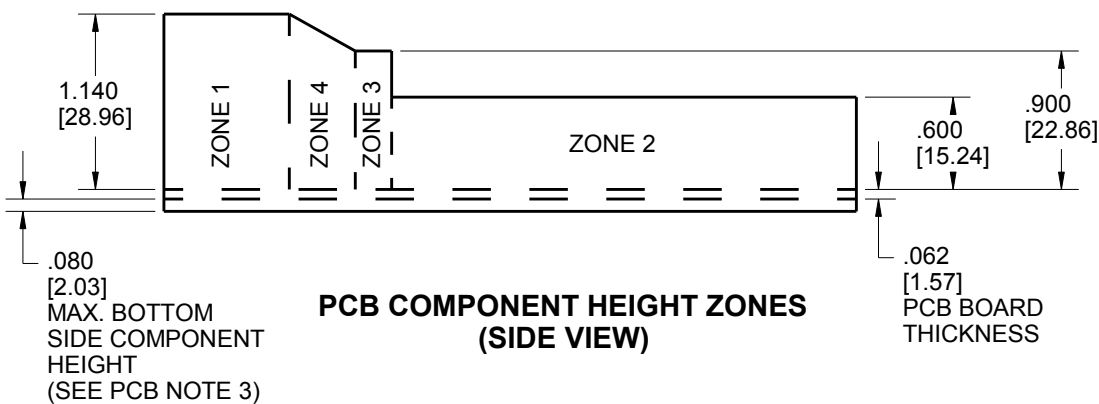


PCB COMPONENTS HEIGHT LIMIT

	ZONE 1	ZONE 2	ZONE 3	ZONE 4
MAX. HEIGHT FOR COMPONENTS (ABOVE PCB)	1.140"	.600"	.900"	SEE PCB NOTE 4

PCB NOTES:

- IF MOSFET SPRINGS ARE USED, ZONE 3 SHOULD CONTAIN ONLY MOSFETS AND TRACES BETWEEN THE SPRINGS AND EDGE OF THE BOARD.
- ON BOTTOM SIDE OF THE PCB, COMPONENTS OR TRACES MUST BE MIN. .100" AWAY FROM THE EDGE OF THE PCB.
- THE BOTTOM SIDE OF THE PCB SHOULD NOT HAVE COMPONENTS OR LEADS THAT EXTEND HIGHER THAN .080" (SEE PG. 6 SIDE VIEW).
- AREA HAS VARIABLE HEIGHT. SEE PCB COMPONENT HEIGHT ZONES VIEW FOR DETAILS.



UNITS		ENGLISH		CINCH	
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		1700 FINLEY RD LOMBARD, IL. 60148	
FILLET/RADII .02 MAX		TOLERANCES -X ± .1 XX ± .01 XXX ± .005 ANGULAR ± .5°		TITLE 18-WAY HEADERS MODICE SE	
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH		THIS DOCUMENT IS THE PROPERTY OF CINCH. NEITHER THIS DOCUMENT NOR ANY OF THE INFORMATION CONTAINED IN IT MAY BE DUPLICATED OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF CINCH.		PRO/E DRAWING	
CAD FILE NUMBER	DRAWING NUMBER	REV			
5810118032S_HEADERS	581 01 18 032 S	E			
CAGE IDENT NO.	SIZE	SCALE	SHEET 5 OF 6		
71785	B	4:5			

8

7

6

5

4

3

2

1

D

D

C

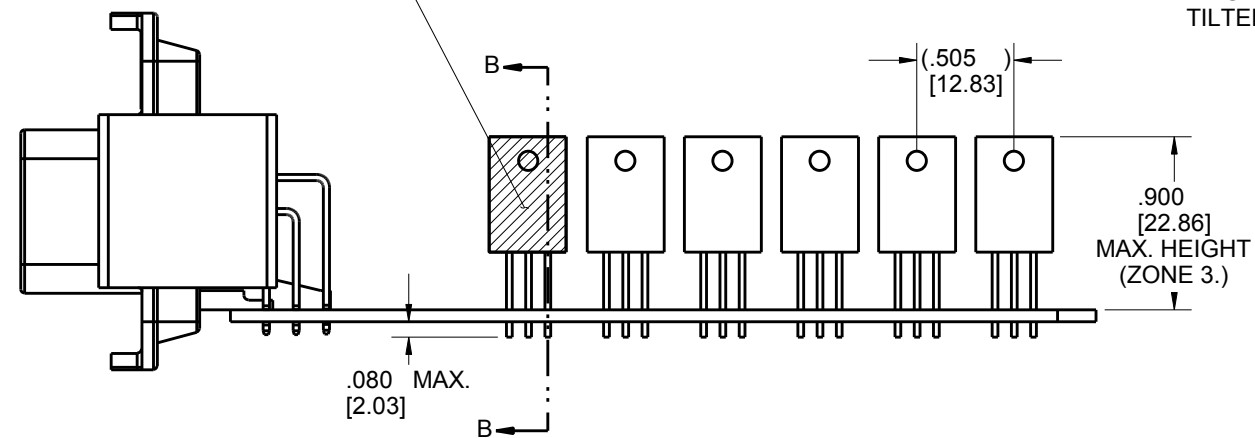
C

B

B

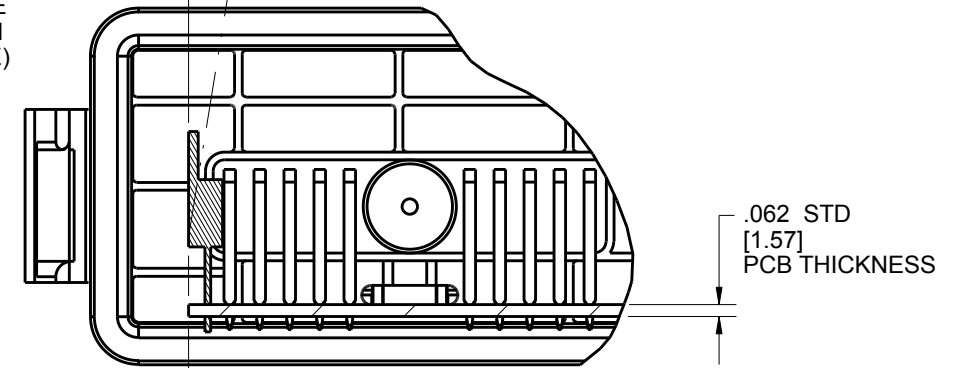
A

APPLY THIN BEAD OF THERMALLY CONDUCTIVE ADHESIVE PASTE TO ENTIRE MOSFET SURFACE. (SEE NOTE 5.)



**SIDE VIEW
REQUIRED TO-220 PACKAGE PROFILE**

FOR EASE OF ASSEMBLY IT IS RECOMMENDED THAT MOSFET(S) BE TILTED UP TO 10° IN POSITIVE DIRECTION (SEE DOTTED LINE)



MOSFET MUST LIE IN THE SAME PLANE WITH EDGE OF PCB (AS SHOWN)

**REQUIRED TO-220 PACKAGING PROFILE
PARTIAL SECTION B-B**

UNITS ENGLISH		CINCH		1700 FINLEY RD LOMBARD, IL. 60148	
DO NOT SCALE DRAWING		TITLE 18-WAY HEADERS MODICE SE			
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		PRO/E DRAWING			
FILLET/RADII .02 MAX		TOLERANCES		CAD FILE NUMBER	
		.X ± .1		DRAWING NUMBER	
		.XX ± .01		5810118032S_HEADERS	
		.XXX ± .005		CAGE IDENT NO.	
		ANGULAR ± .5°		71785	
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH		SIZE		SCALE	
		B		1:1	
THIS DOCUMENT IS THE PROPERTY OF CINCH. NEITHER THIS DOCUMENT NOR ANY OF THE INFORMATION CONTAINED IN IT MAY BE DUPLICATED OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF CINCH.		SHEET 6 OF 6		REV E	

8

7

6

Please read our datasheet & drawing disclaimer [here](#).

3

2

1