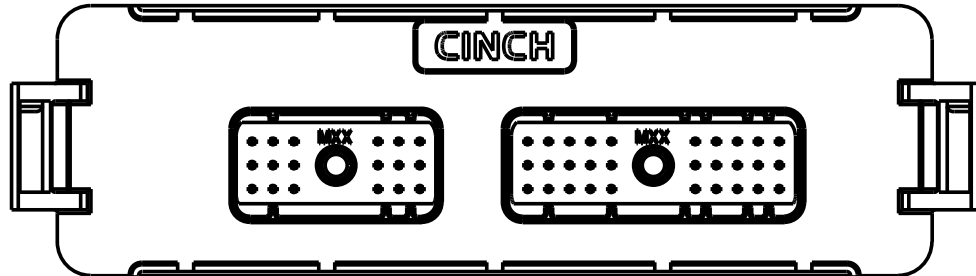
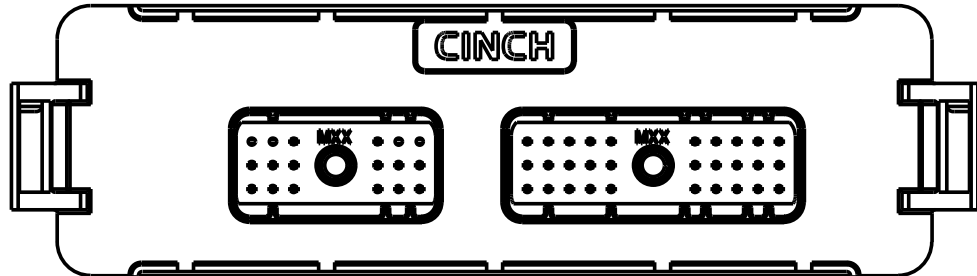
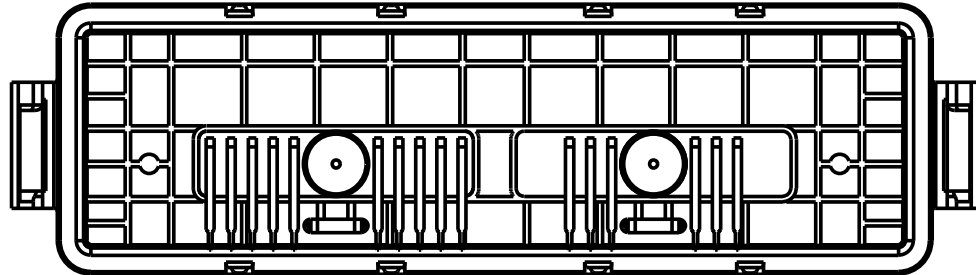
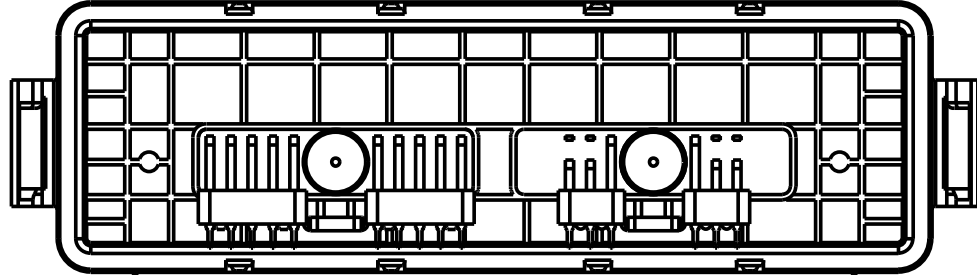
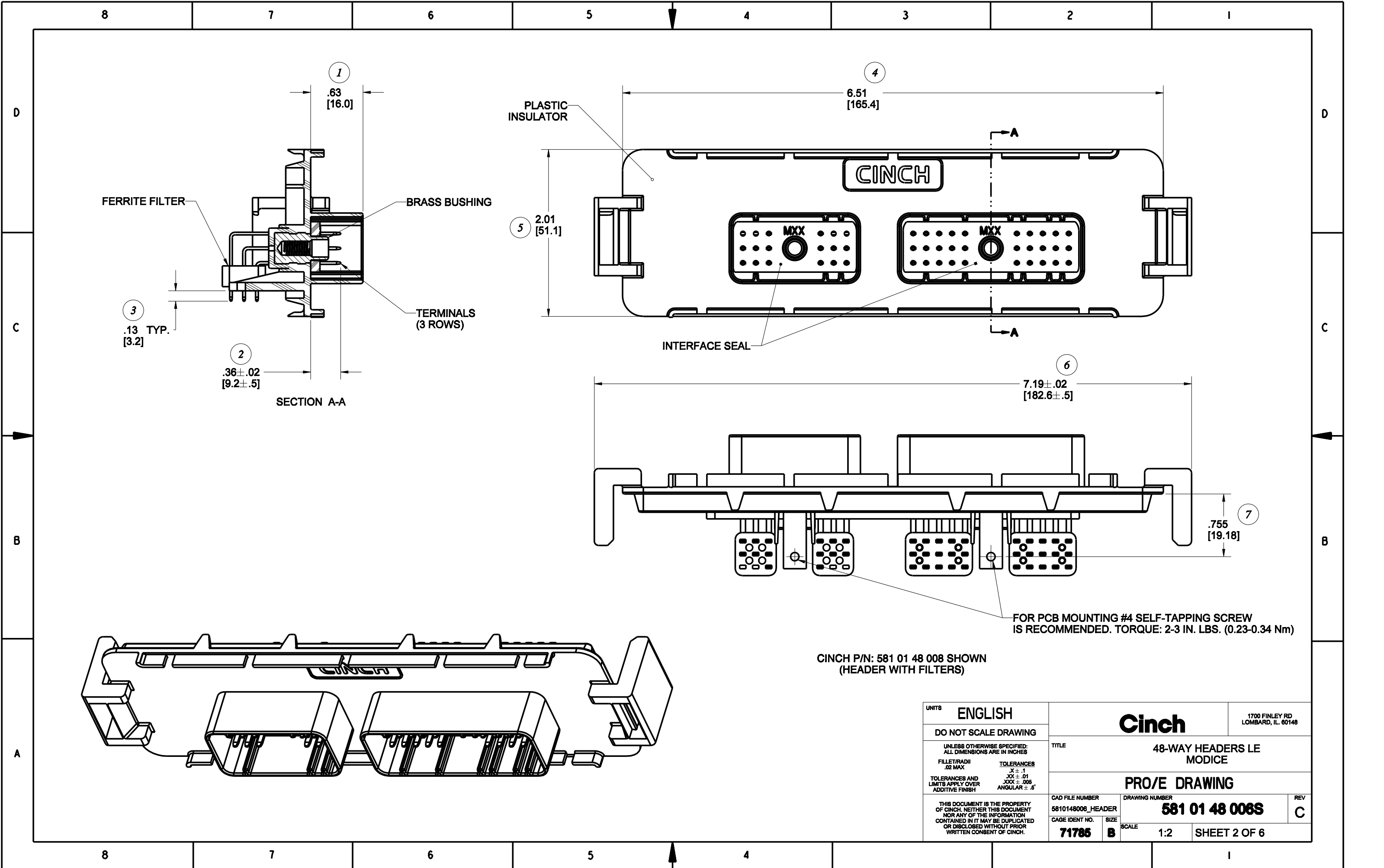


8		7		6		5		4		3		2		1	
CINCH PART NUMBER MATRIX														DRAWING REVISIONS	
P/N: 581 01 48 006														P/N: 581 01 48 008	
48-WAY HEADER ASSEMBLY WITHOUT FERRITE FILTERS														48-WAY HEADER ASSEMBLY WITH FERRITE FILTERS	
															
															
MATES WITH CINCH HARNESS CONNECTORS P/N: 581 01 18 023 (18-WAY) AND 581 01 30 029 (30-WAY)															
NOTE: 1. ALL DIMENSIONS ARE IN INCHES; DIMENSION INSIDE [.XX] ARE IN MM, AS REF. ONLY. 2. 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. 3. ALL HEADERS ARE REFLOW AND WAVE SOLDERING PROCESS, ROHS COMPLIANT. 4. MATES WITH CINCH SHS PUSH-TO-SEAT HARNESS CONNECTORS (SEE TABLE ABOVE). 5. THERMALLY CONDUCTIVE ADHESIVE PASTE SOLD SEPARATELY: RECOMMENDED IS LOCTITE 383. 6. MOSFET SPRING PLATES ARE SOLD SEPARATELY (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) 7. STANDARD PACKAGE SIZE: 36 PARTS/CARTON BOX.															
RoHS COMPLIANT														MODELED BY:	
UNITS		ENGLISH		PRO/E		Cinch				1700 FINLEY RD LOMBARD, IL 60148					
DO NOT SCALE DRAWING				DRAWN BY		DATE		TITLE				48-WAY HEADERS LE MODICE			
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES				B. KOSTIC		9/02/05		MATERIAL				CONTROL SPEC NUMBER			
FILLET/RADII .02 MAX				B. KOSTIC		9/02/05		MATERIAL SPEC NUMBER				PROJECT NUMBER			
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH				DESIGN ENGINEERING MGR. A. CAINES		9/9/05		FINISH				A 14562			
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				QUALITY ASSURANCE D. DE LA PENA		9/15/05		5810148006_HEADER				581 01 48 006S			
								CAGE IDENT NO. 71785				SIZE B			
								SCALE 1:2				SHEET 1 OF 6			
8		7		6		5		4		3		2		1	



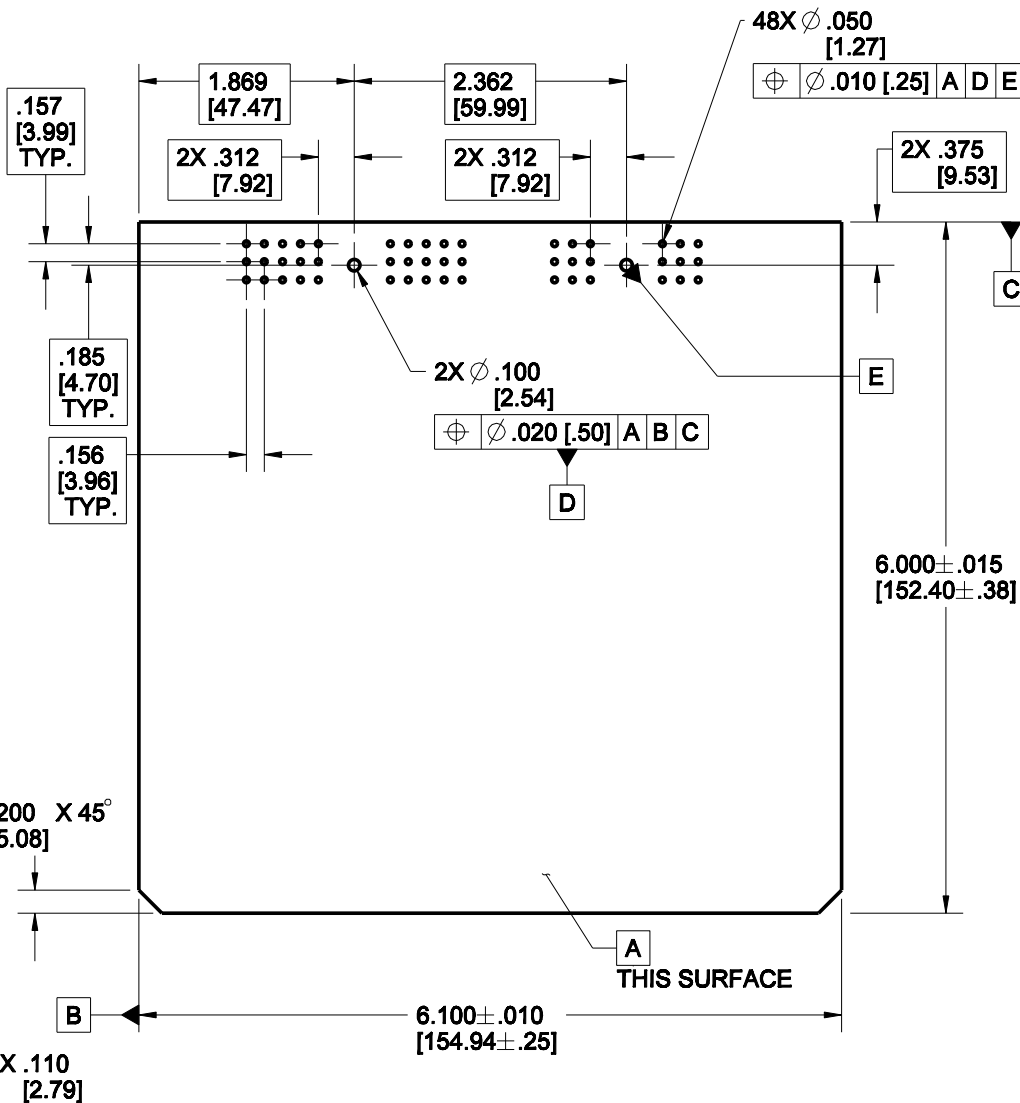
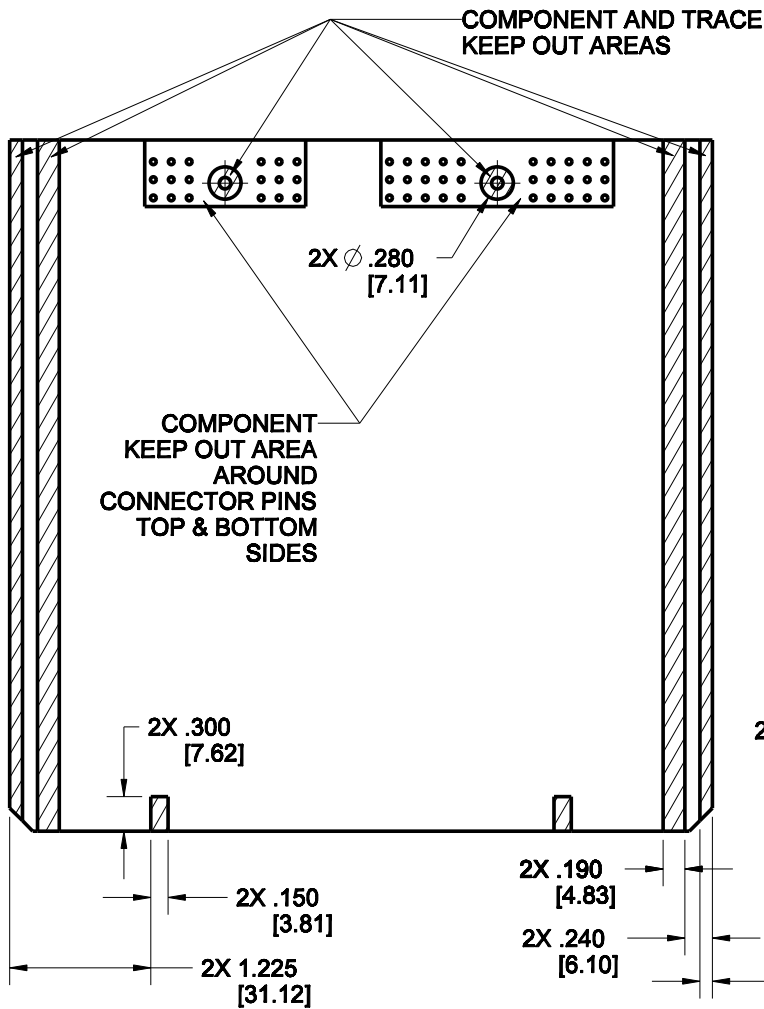
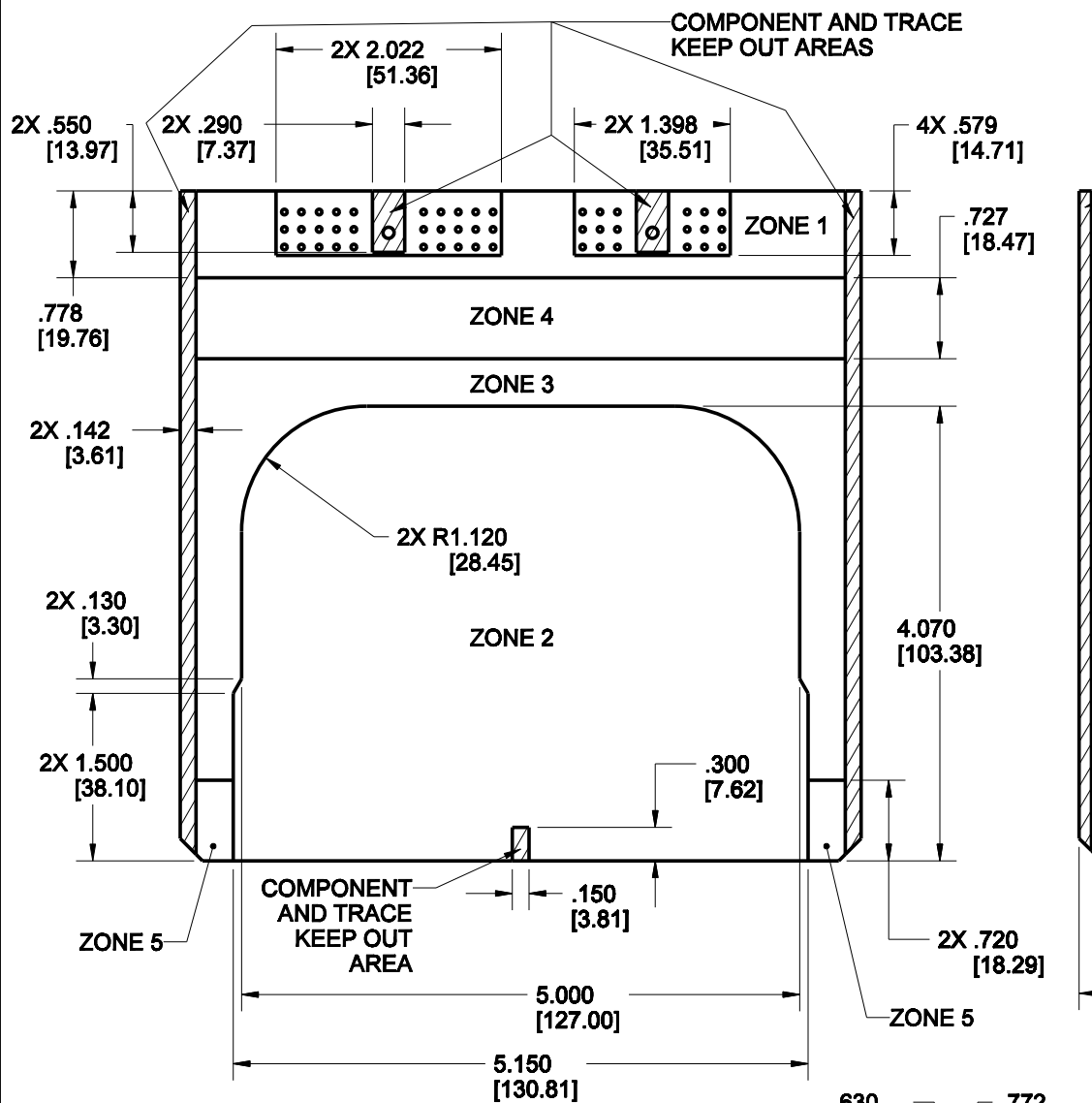
UNITS ENGLISH		Cinch		1700 FINLEY RD LOMBARD, IL. 60148		
DO NOT SCALE DRAWING						
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		TITLE 48-WAY HEADERS LE MODICE				
FILLET/RADIUS .02 MAX		TOLERANCES X ± .1 XX ± .01 XXX ± .005 ANGULAR ± .5°				
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH		PRO/E DRAWING				
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		5810148006_HEADER		581 01 48 006S		C
		CAGE IDENT NO.	SIZE	SCALE		
		71785	B	1:2	SHEET 2 OF 6	

PCB LAY-OUT WITH OUT 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 COMPONENT HEIGHT ZONES (SIDE VIEW)

PCB COMPONENTS HEIGHT LIMIT

	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
MAX. HEIGHT FOR COMPONENTS (ABOVE PCB)	1.270"	SEE PCB NOTE 3	.900"	SEE PCB NOTE 3	.420"
PCB NOTES: 1. ON BOTTOM SIDE OF THE PCB, COMPONENTS OR TRACES MUST BE MIN. .100" AWAY FROM THE EDGE OF THE PCB. 2. THE BOTTOM SIDE OF THE PCB SHOULD NOT HAVE COMPONENTS OR LEADS THAT EXTEND HIGHER THAN .080" (SEE PG. 6 SIDE VIEW). 3. 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								
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES				TITLE				
FILLET/RADI .02 MAX				TOLERANCES X ± .1 XX ± .01 XXX ± .005 ANGULAR ± .5°				
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH				48-WAY HEADERS LE MODICE				
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				CAD FILE NUMBER		DRAWING NUMBER		REV
				5810148006_HEADER		581 01 48 006S		C
				CAGE IDENT NO.	SIZE	SCALE	SHEET 3 OF 6	
71785		B	3:5					

PCB LAY-OUT WITH TWO HEAT SINKS

PCB TOP SIDE GENERAL ZONING & KEEP OUT AREAS

PCB BOTTOM SIDE GENERAL ZONING & KEEP OUT AREAS

PCB OVERALL DIMENSIONS AND HOLES LOCATIONS

D

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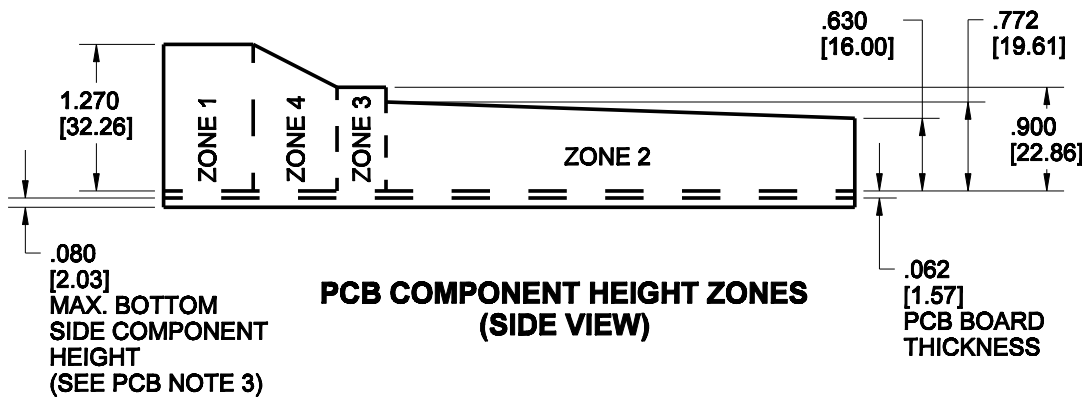
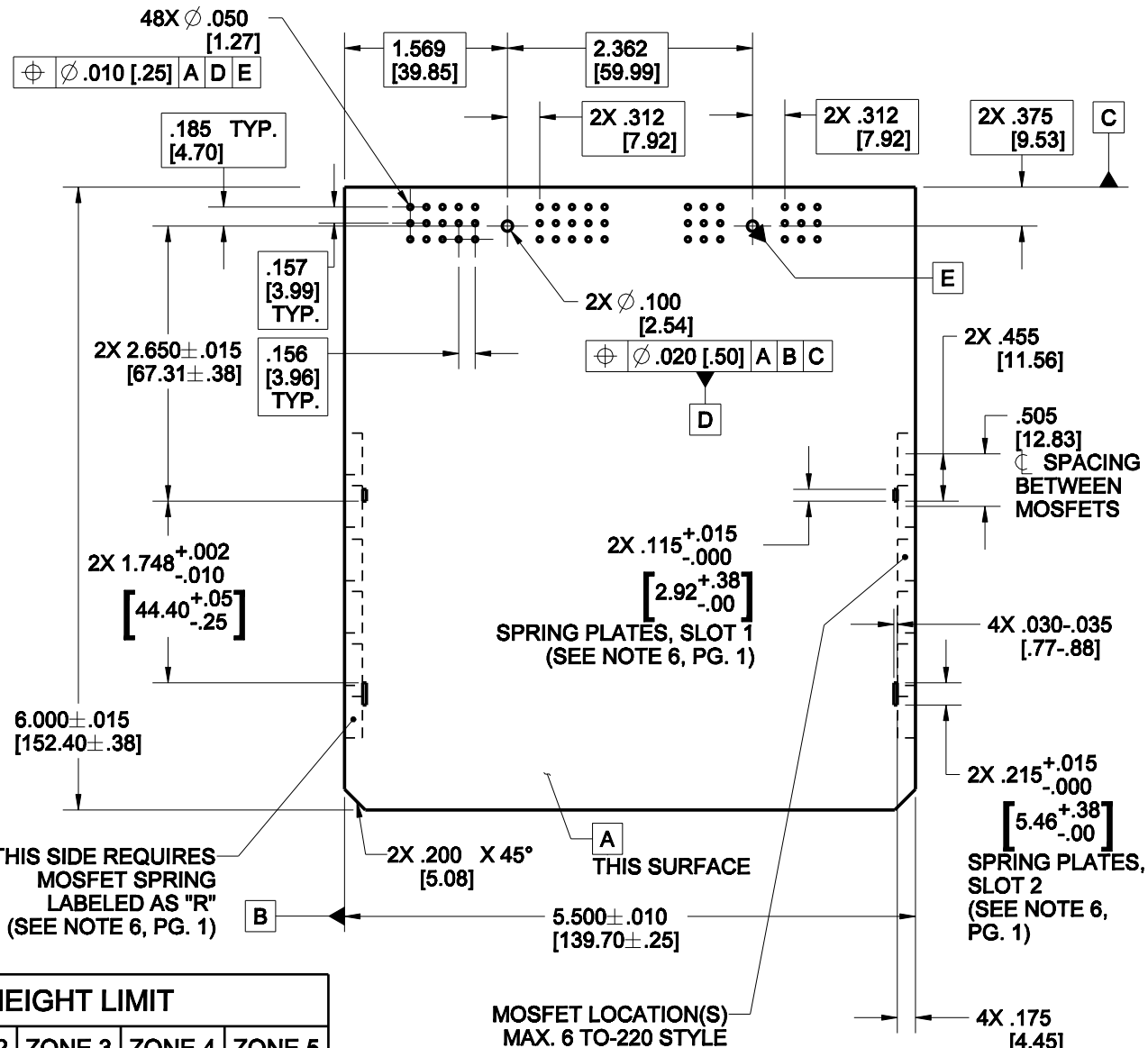
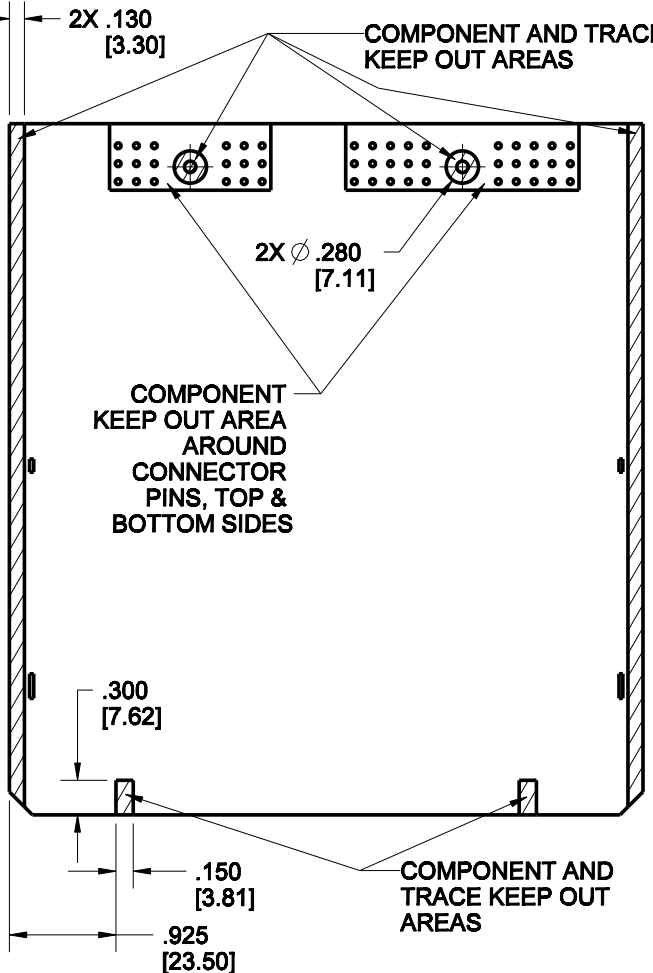
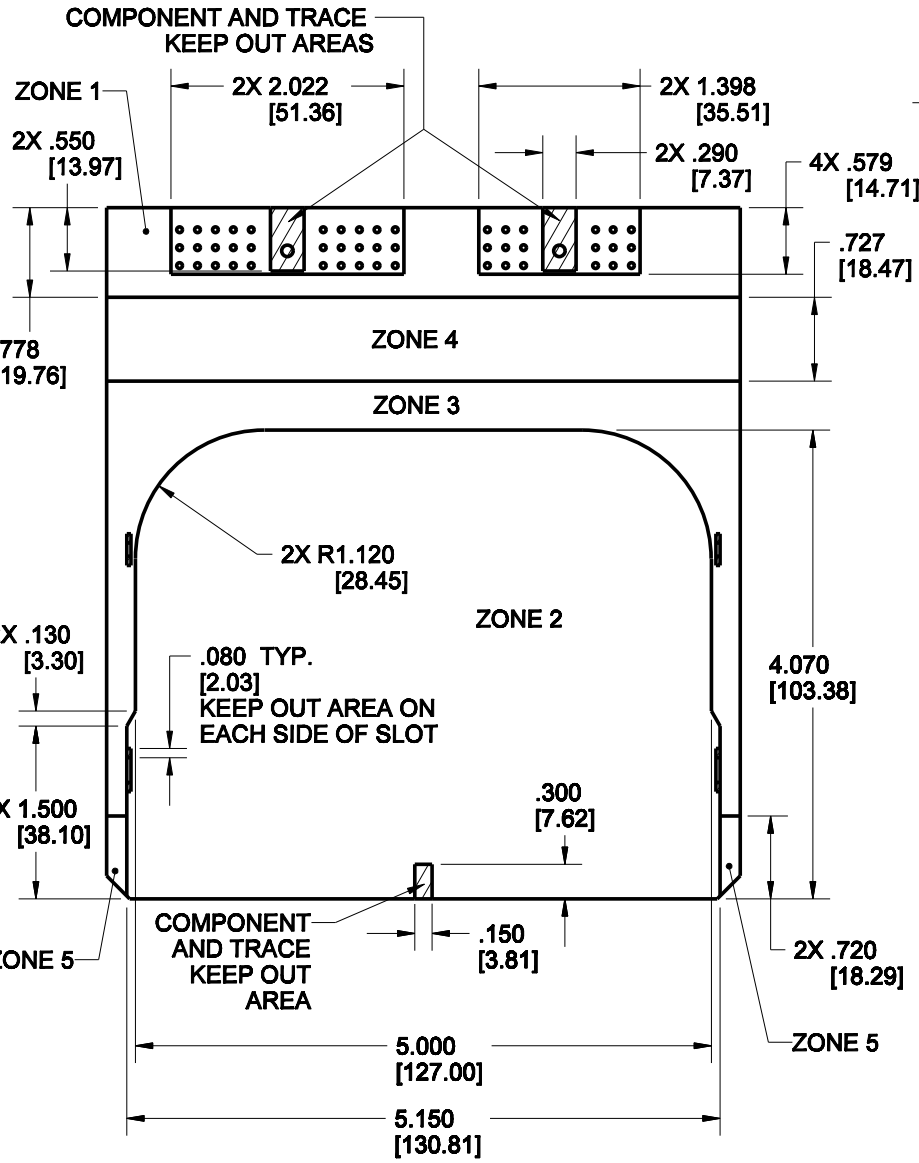
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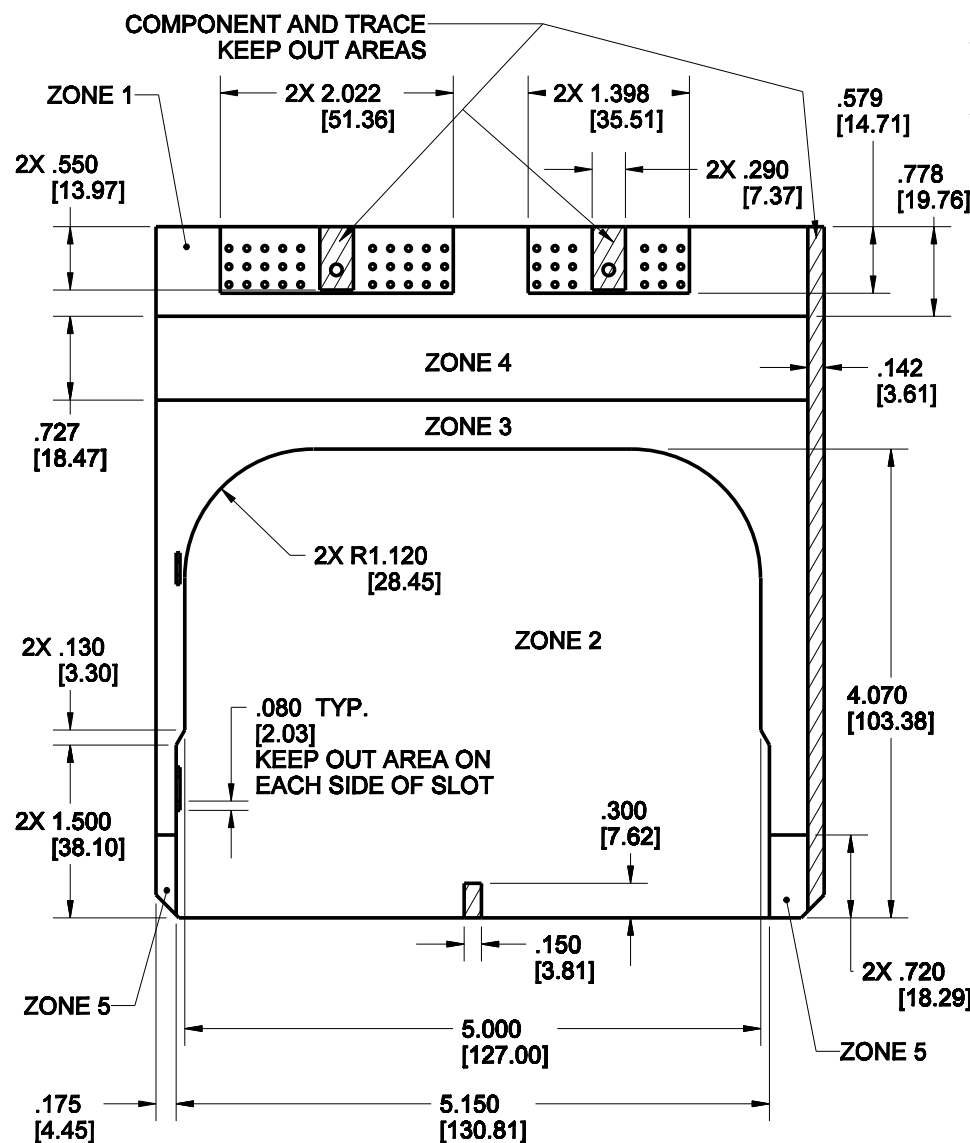


PCB COMPONENTS HEIGHT LIMIT					
	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
MAX. HEIGHT FOR COMPONENTS (ABOVE PCB)	1.270"	SEE PCB NOTE 4	.900"	SEE PCB NOTE 4	.420"
PCB NOTES:					
1. IF MOSFET SPRINGS ARE USED, ZONE 3 SHOULD CONTAIN ONLY MOSFETS AND TRACES BETWEEN THE SPRINGS AND EDGE OF THE BOARD.					
2. ON BOTTOM SIDE OF THE PCB, COMPONENTS OR TRACES MUST BE MIN. .100" AWAY FROM THE EDGE OF THE PCB.					
3. THE BOTTOM SIDE OF THE PCB SHOULD NOT HAVE COMPONENTS OR LEADS THAT EXTEND HIGHER THAN .080" (SEE PG. 6 SIDE VIEW).					
4. AREA HAS VARIABLE HEIGHT. SEE PCB COMPONENT HEIGHT ZONES VIEW FOR DETAILS.					

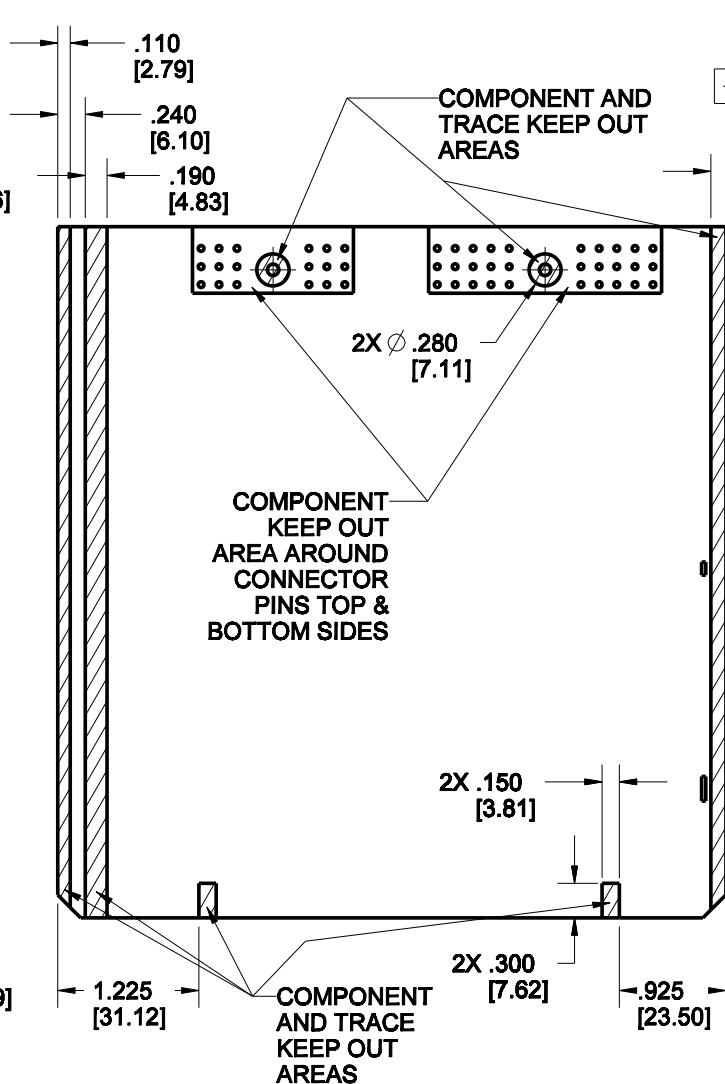
UNITS	ENGLISH	Cinch		1700 FINLEY RD LOMBARD, IL. 60148	
DO NOT SCALE DRAWING		TITLE 48-WAY HEADERS LE MODICE			
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		PRO/E DRAWING			
FILLET/RADI .02 MAX		TOLERANCES X $\pm$.1 XX $\pm$.01 XXX $\pm$.005 ANGULAR $\pm$.5°		CAD FILE NUMBER 5810148008_HEADER	DRAWING NUMBER 581 01 48 006S
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				SHEET 4 OF 6	

PCB LAY-OUT WITH ONE HEAT SINK

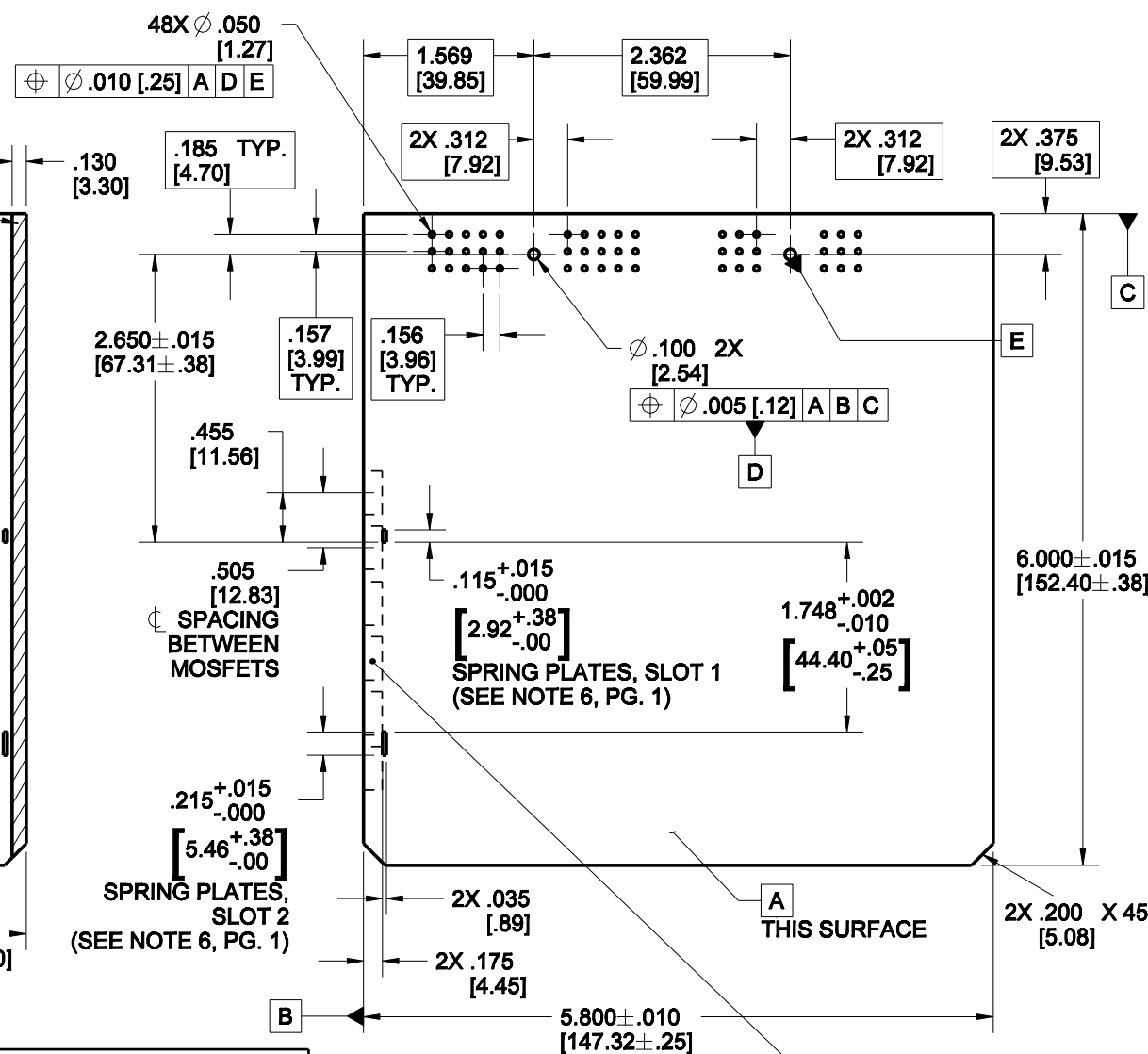
PCB TOP SIDE GENERAL ZONING & KEEP OUT AREAS



PCB BOTTOM SIDE GENERAL ZONING & KEEP OUT AREAS



PCB OVERALL DIMENSIONS AND HOLE LOCATIONS



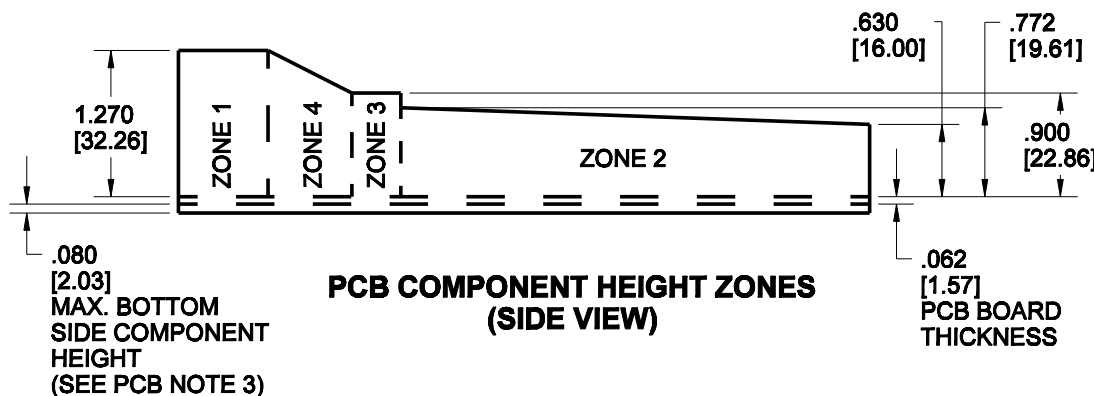
PCB COMPONENTS HEIGHT LIMIT

	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
MAX. HEIGHT FOR COMPONENTS (ABOVE PCB)	1.270"	SEE PCB NOTE 4	.900"	SEE PCB NOTE 4	.420"

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.

PCB COMPONENT HEIGHT ZONES (SIDE VIEW)



UNITS	ENGLISH	Cinch		1700 FINLEY RD LOMBARD, IL. 60148
DO NOT SCALE DRAWING		48-WAY HEADERS LE MODICE		
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		TITLE		
FILLET/RADI .02 MAX		TOLERANCES X ± .1 .XX ± .01 .XXX ± .005 ANGULAR ± .5°		
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.		
CAGE IDENT NO.		DRAWING NUMBER		REV
71785		581 01 48 006S		C
SCALE		3:5		SHEET 5 OF 6

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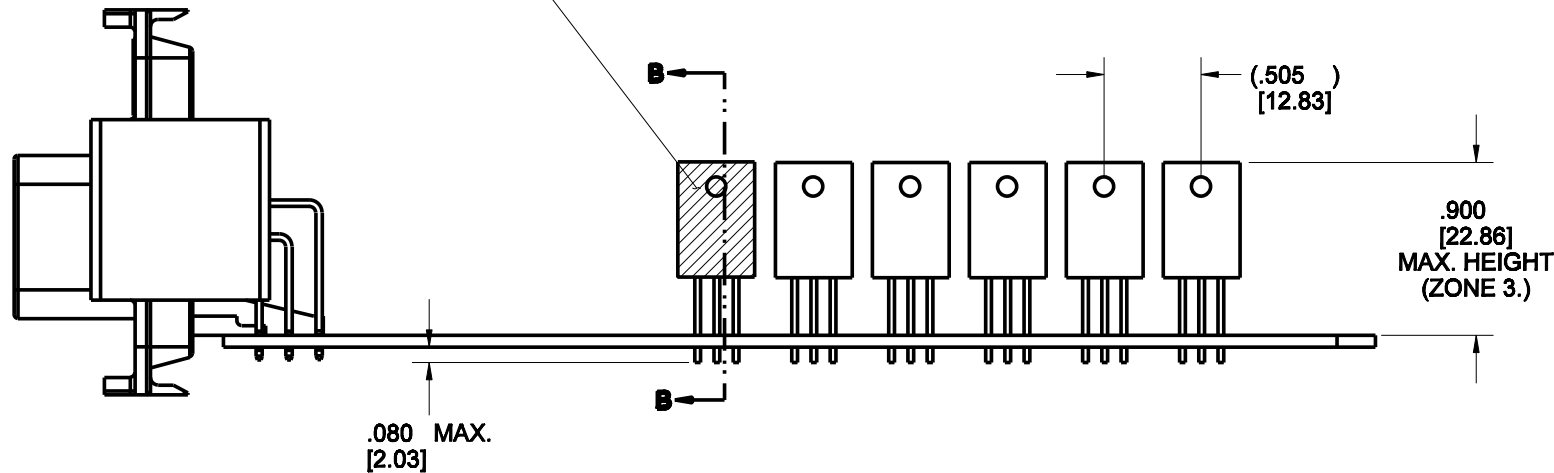
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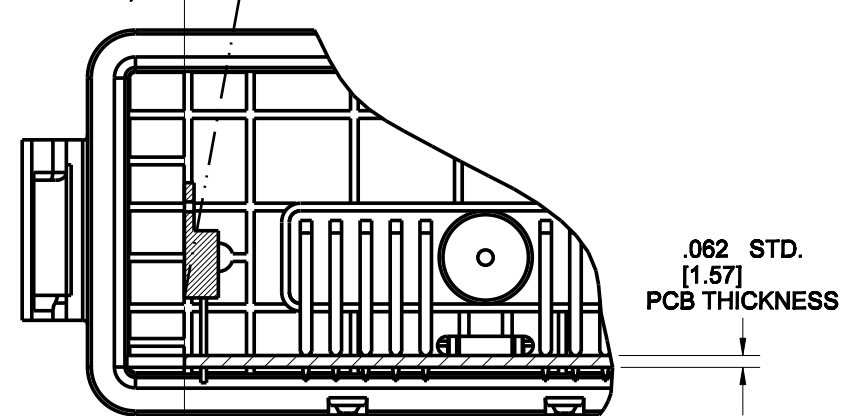
A

APPLY THIN BEAD OF THERMALLY
CONDUCTIVE ADHESIVE PASTE TO
ENTIRE SURFACE OF EVERY
MOSFET (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)

SECTION B-B

UNITS ENGLISH		Cinch		1700 FINLEY RD LOMBARD, IL. 60148		
DO NOT SCALE DRAWING						
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		TITLE 48-WAY HEADERS LE MODICE				
FILLET/RADI .02 MAX		TOLERANCES .X ± .1 XX ± .01 XXX ± .005 ANGULAR ± .5°				
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH		PRO/E DRAWING				
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.		CAD FILE NUMBER		DRAWING NUMBER		REV C
		5810148006_HEADER		581 01 48 006S		
		CAGE IDENT NO.	SIZE	SCALE		
		71785	B	1:1	SHEET 6 OF 6	

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