

8 7 6 5 4 3 2 1

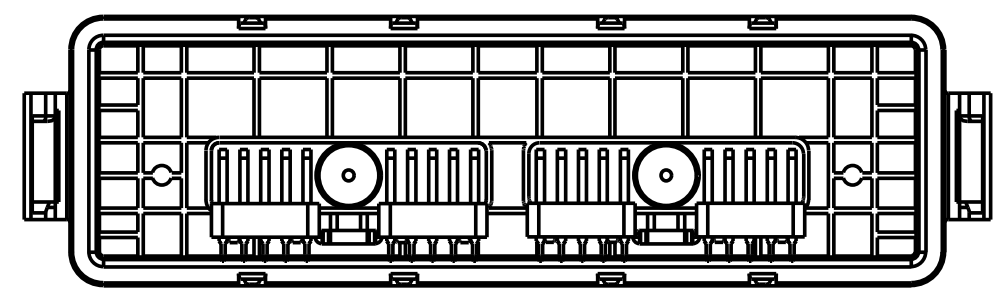
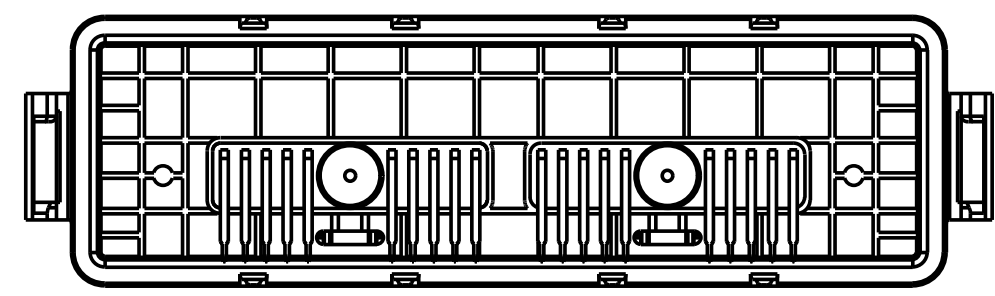
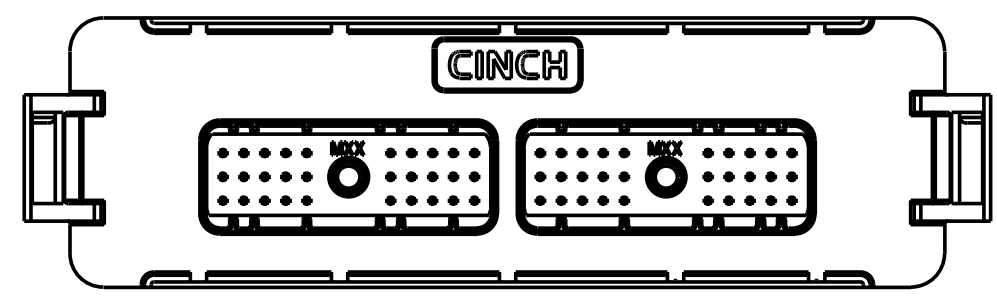
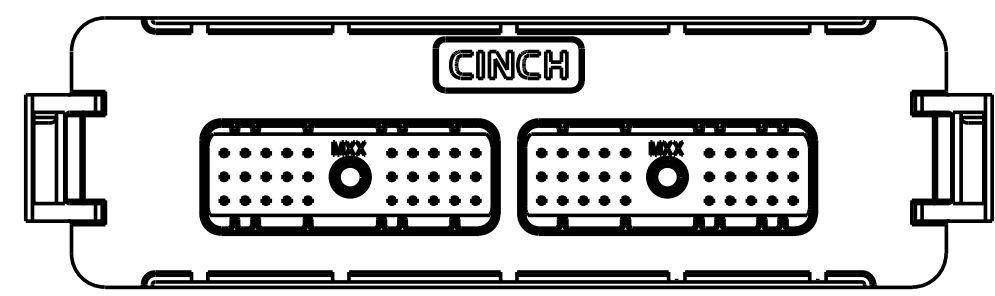
CINCH PART NUMBER MATRIX

P/N: 581 01 60 005

P/N: 581 01 60 006

60-WAY HEADER ASSEMBLY WITHOUT FERRITE FILTERS

60-WAY HEADER ASSEMBLY WITH FERRITE FILTERS



MATES WITH CINCH HARNESS CONNECTORS P/N:
581 01 30 028 (30-WAY) AND 581 01 30 029 (30-WAY)

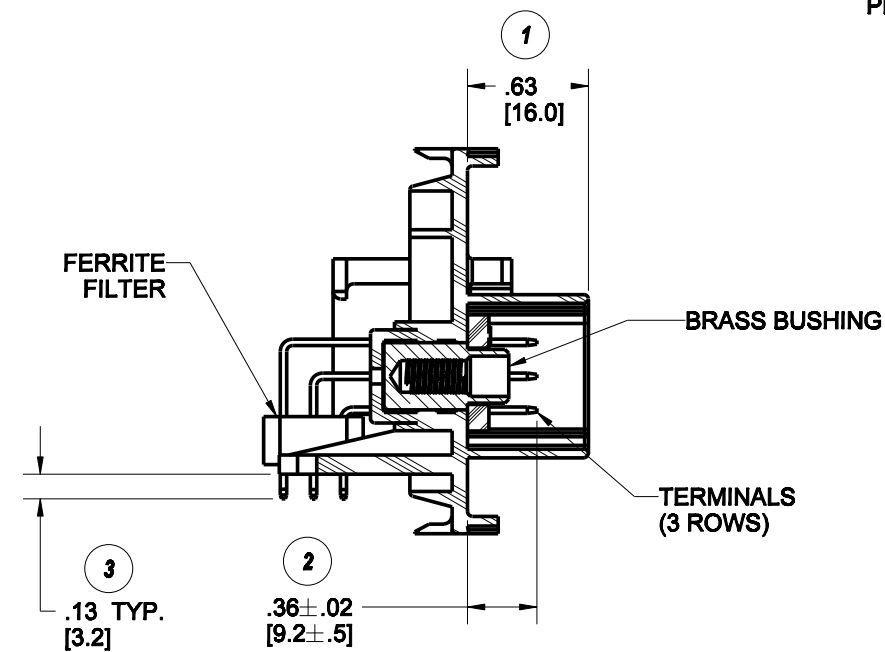
DRAWING REVISIONS			
REV	DOCUMENT	APP	DATE
A	D.O. 05-1217 REL. FOR PRODUCTION	A.C.	9/9/05
B	ECN: 05A634 ADDED SHEET 5 ADDED SHEET 6 MODIFIED SHEET 3 MODIFIED SHEET 4	A.C.	3/23/06
C	ECN: 06A477 REFORMATTED DRAWING PCB LAYOUTS REDRAWN WITH ADDITIONAL KEEP OUT AREAS	A.C.	1/8/07

NOTE:

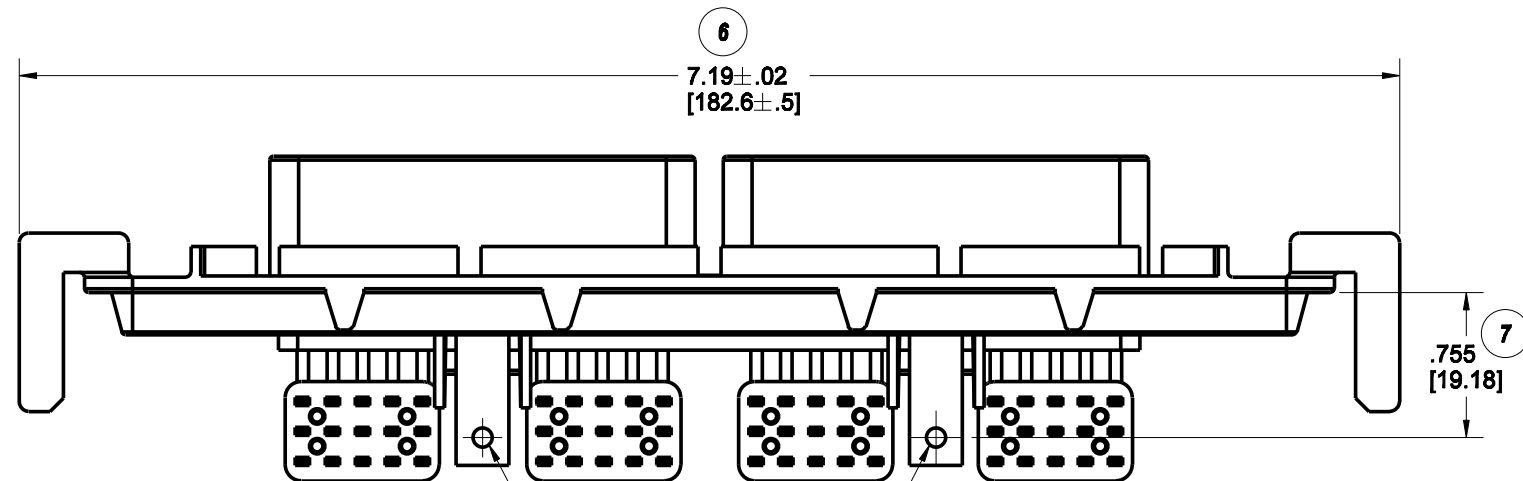
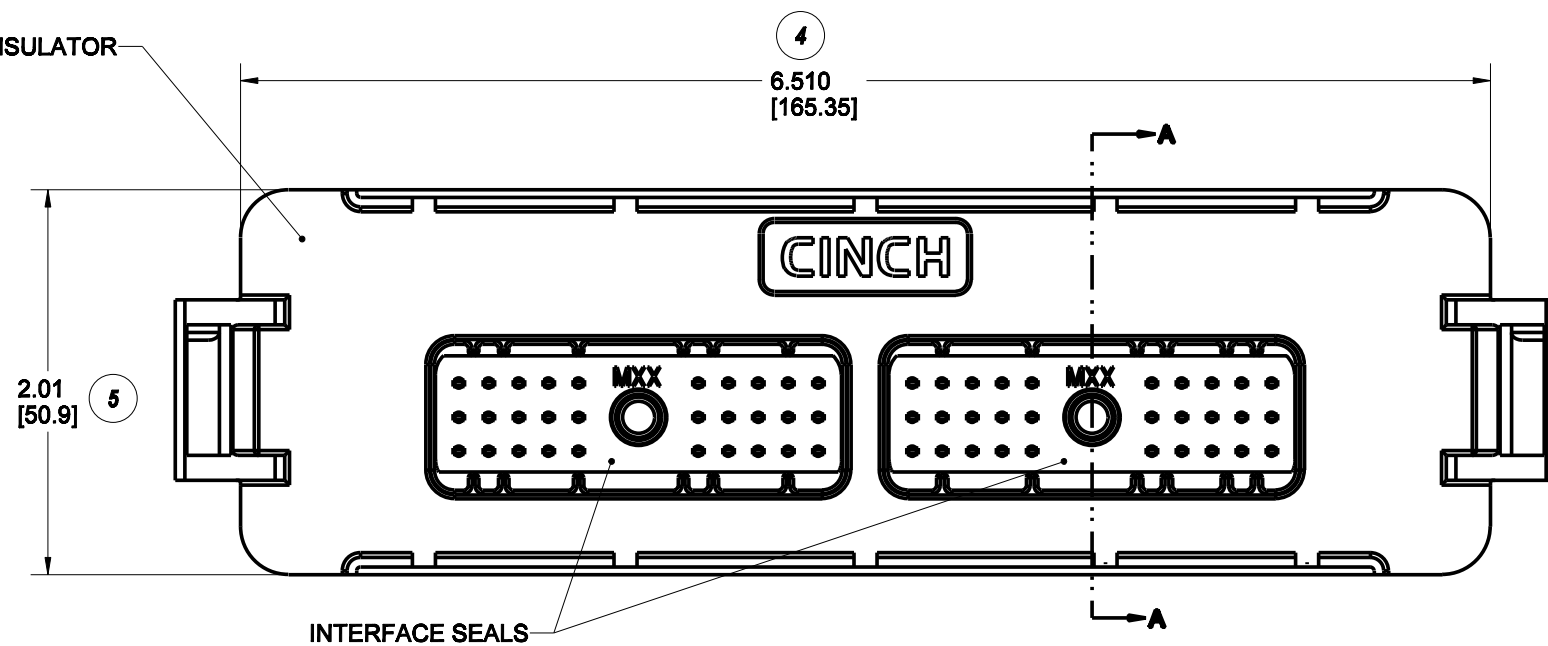
- ALL DIMENSIONS ARE IN INCHES; DIMENSIONS INSIDE [.XX] ARE IN mm, AS REF. ONLY.
- MATERIALS:
INTERFACE SEAL: SILICONE RUBBER, COLOR BLUE;
INSULATOR: 30 % GLASS FILLED POLYMER, COLOR BLACK;
BUSHING: BRASS ALLOY, UNPLATED 10-24 UNC THREAD;
TERMINAL BLADE: 1.5 mm BRASS WITH TIN OVER NICKEL PLATING;
FILTERS: FERRITE BLOCKS.
- ALL HEADERS ARE REFLOW AND WAVE SOLDERING PROCESS, ROHS COMPLIANT.
- MATES WITH CINCH SHS PUSH-TO-SEAT HARNESS CONNECTORS (SEE TABLE ABOVE).
- THERMALLY CONDUCTIVE ADHESIVE PASTE SOLD SEPARATELY: RECOMMENDED IS LOCTITE 383.
- 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)
- STANDARD PACKAGE SIZE: 36 PARTS/CARTON BOX.

UNITS		RoHS COMPLIANT		MODELED BY:	
ENGLISH	PRO/E	Cinch		1700 FINLEY RD. LOMBARD, IL. 60148	
DO NOT SCALE DRAWING	DRAWN BY B. KOSTIC	DATE 9/02/05	TITLE 60-WAY HEADERS LE MODICE		
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES	DESIGN ENGINEER B. KOSTIC	9/02/05	MATERIAL CONTROL SPEC NUMBER		
FILLET/RADII .02 MAX	DESIGN ENGINEERING MGR. A. CAINES	9/5/05	MATERIAL SPEC NUMBER	FINISH	PROJECT NUMBER A 14562
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH	MFG. ENGINEERING R. GARZA	9/15/05	CAD FILE NUMBER 5810160005_HEADER	DRAWING NUMBER 581 01 60 005S	
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8 7 6 5 4 3 2 1

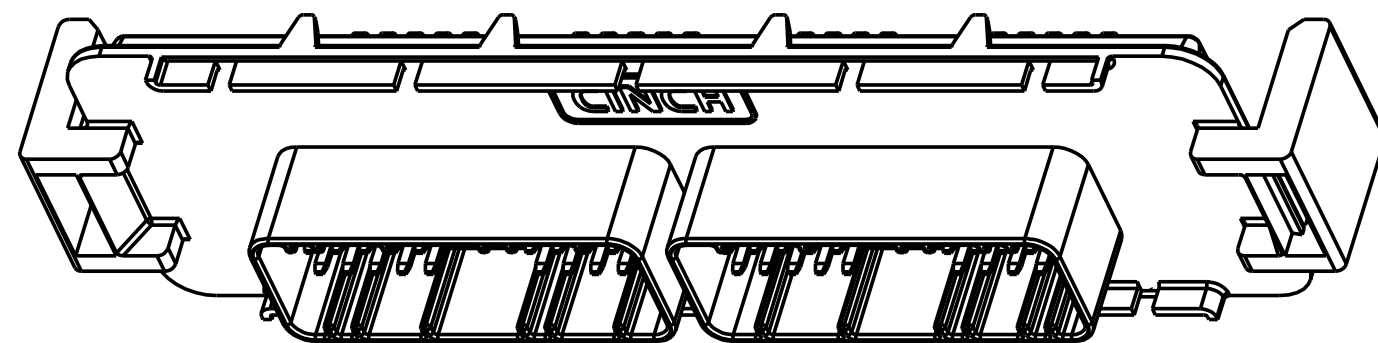


PLASTIC INSULATOR



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

**CINCH P/N: 581 01 60 006 SHOWN
(HEADER WITH FILTERS)**



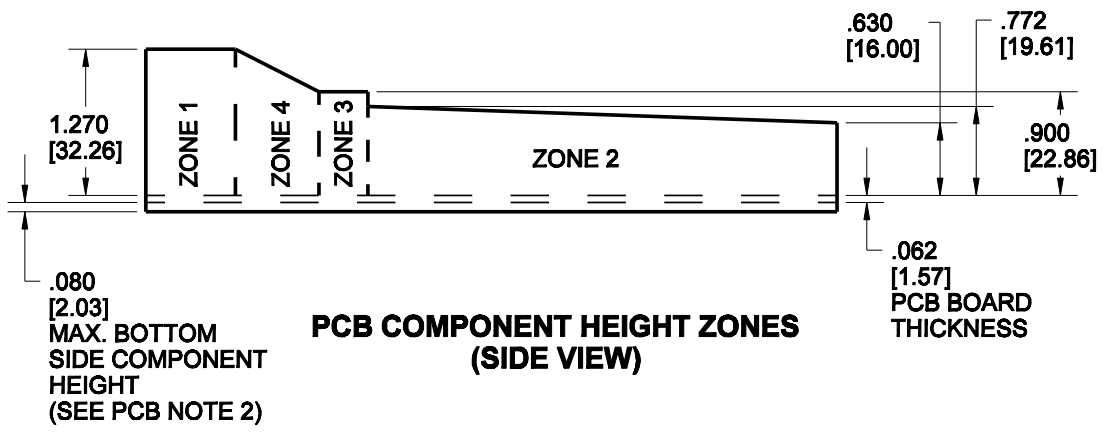
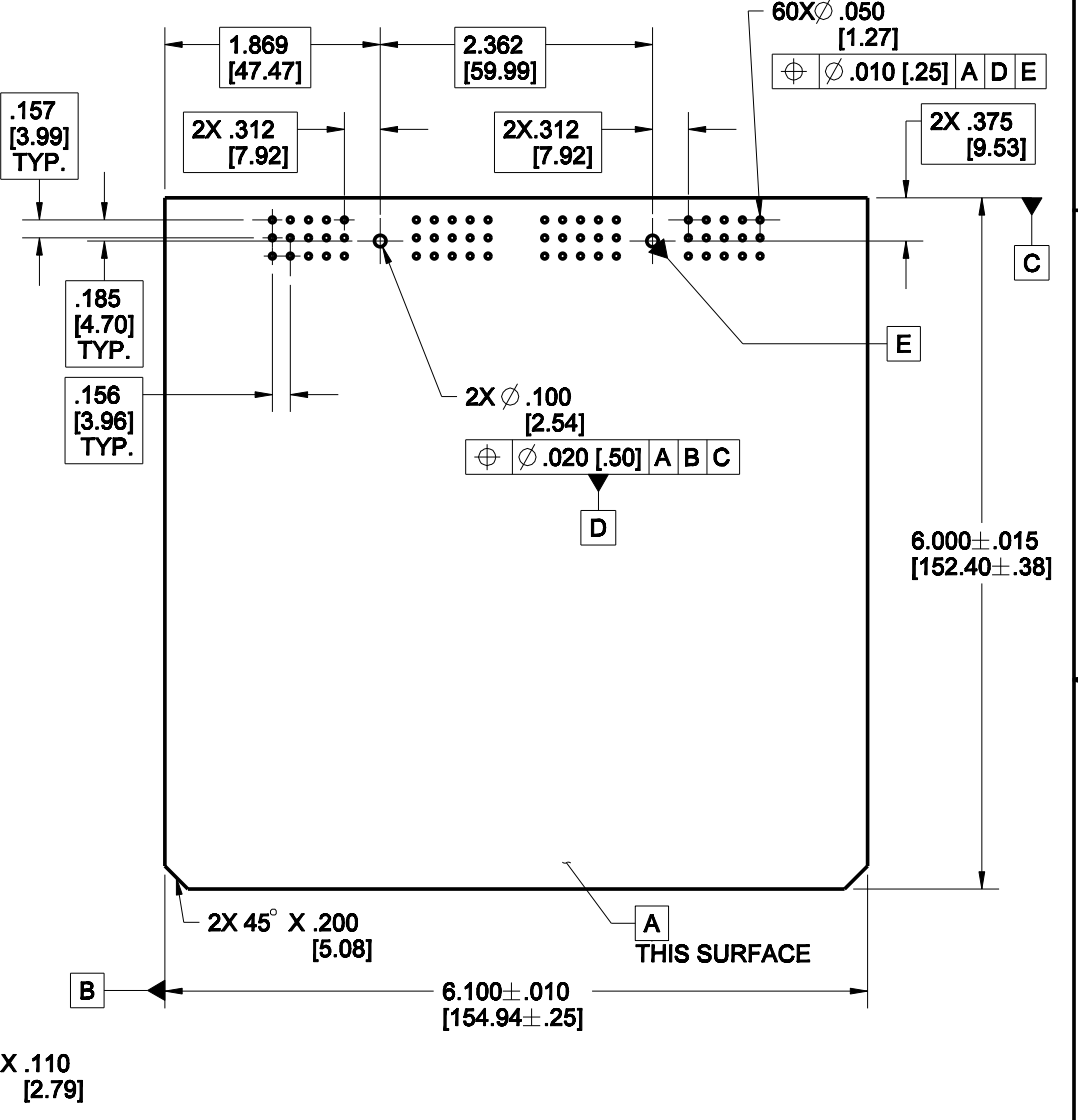
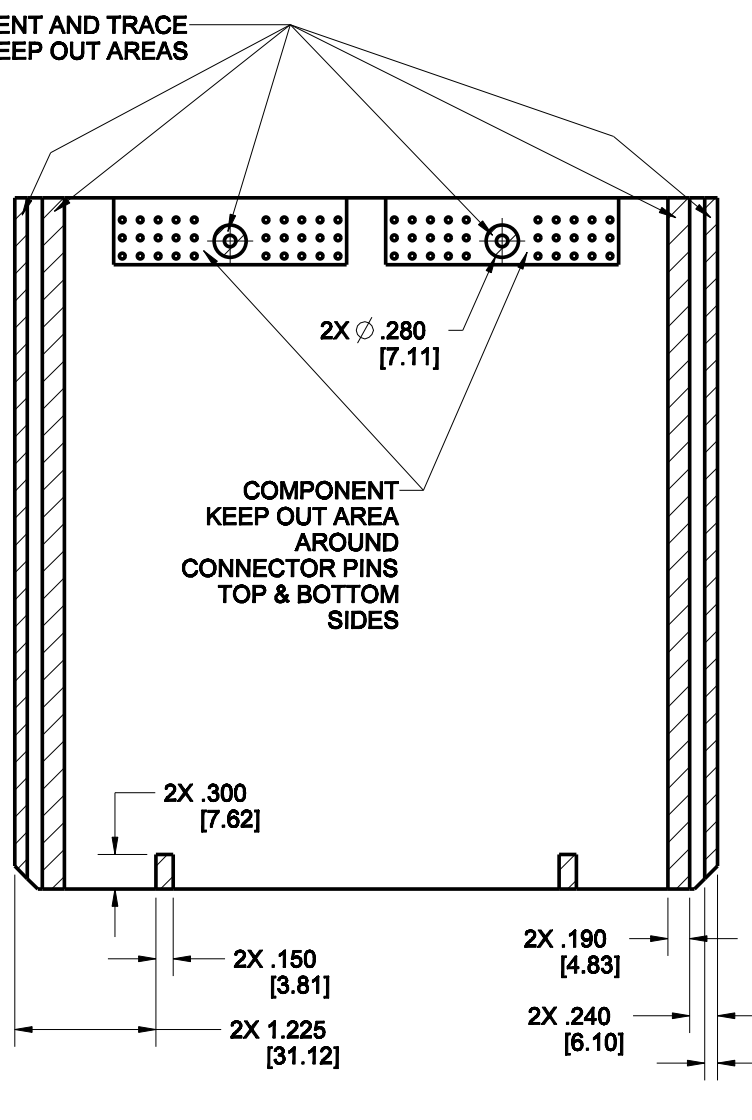
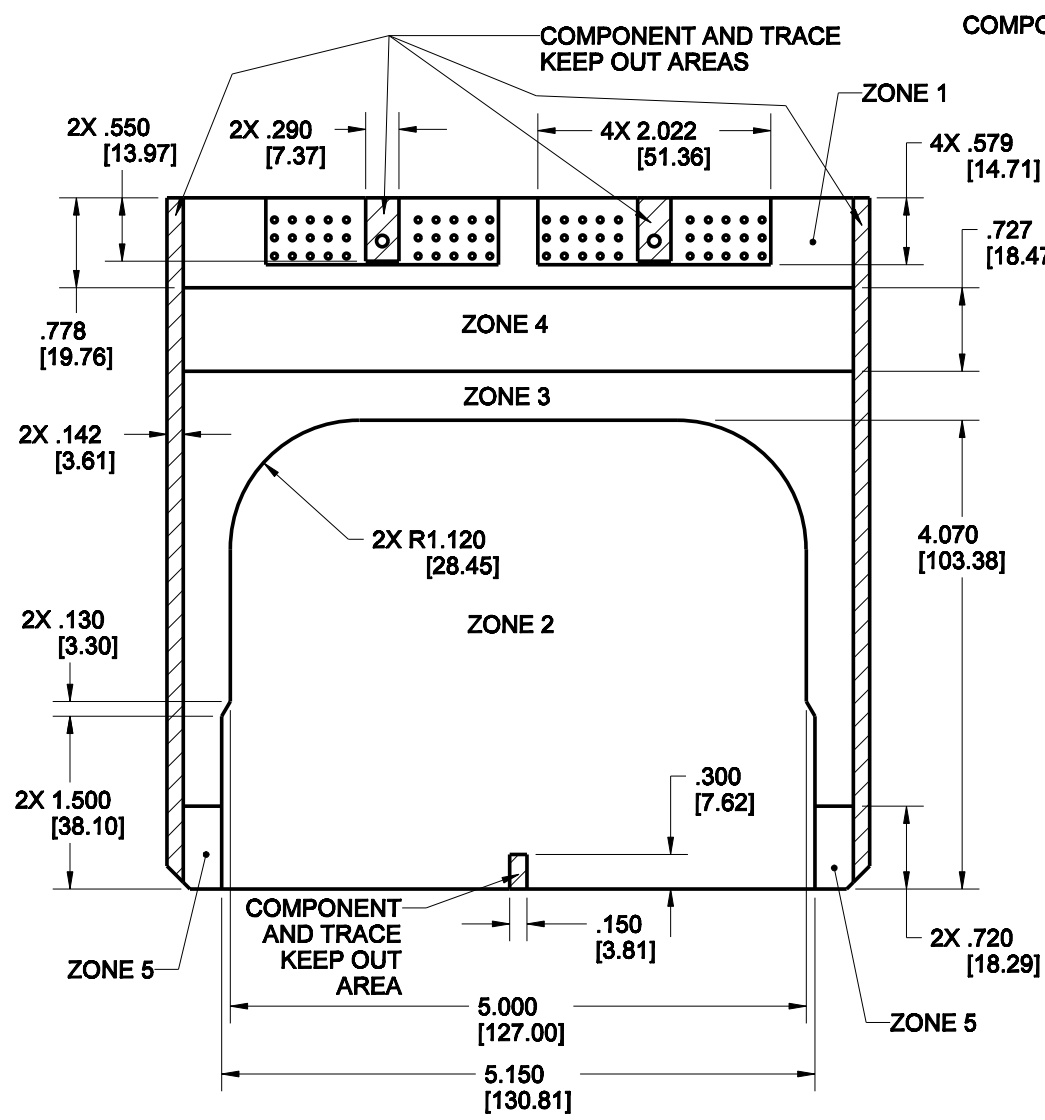
UNITS ENGLISH		Cinch		1700 FINLEY RD LOMBARD, IL 60148	
DO NOT SCALE DRAWING		TITLE 60-WAY HEADERS LE MODICE			
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		PRO/E DRAWING			
FILLET/RADI .02 MAX	TOLERANCES X ± .1 .XX ± .01 .00X ± .005 ANGULAR ± .5	CAD FILE NUMBER 5810160006_HEADER	DRAWING NUMBER 581 01 60 005S	REV C	
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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	ZONE 5
MAX. HEIGHT FOR COMPONENTS (ABOVE PCB)	1.270"	SEE PCB NOTE 3	.900"	SEE PCB NOTE 3	.420"

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.

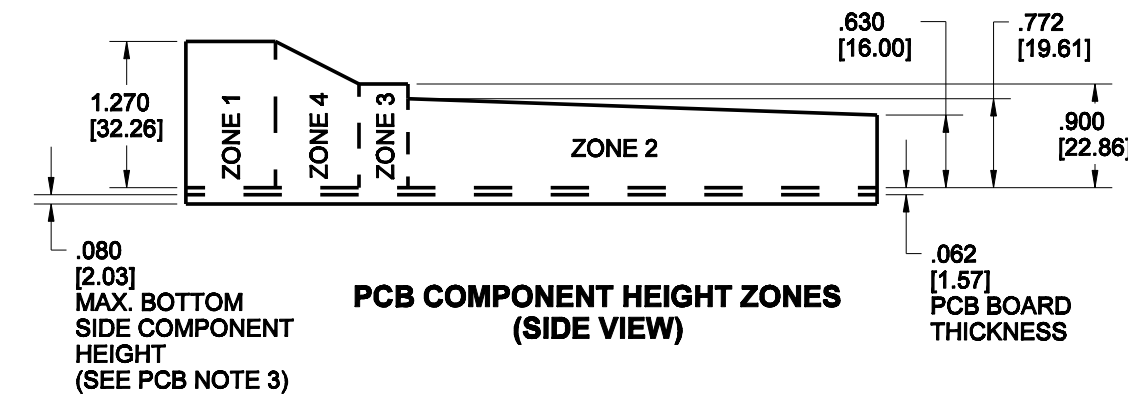
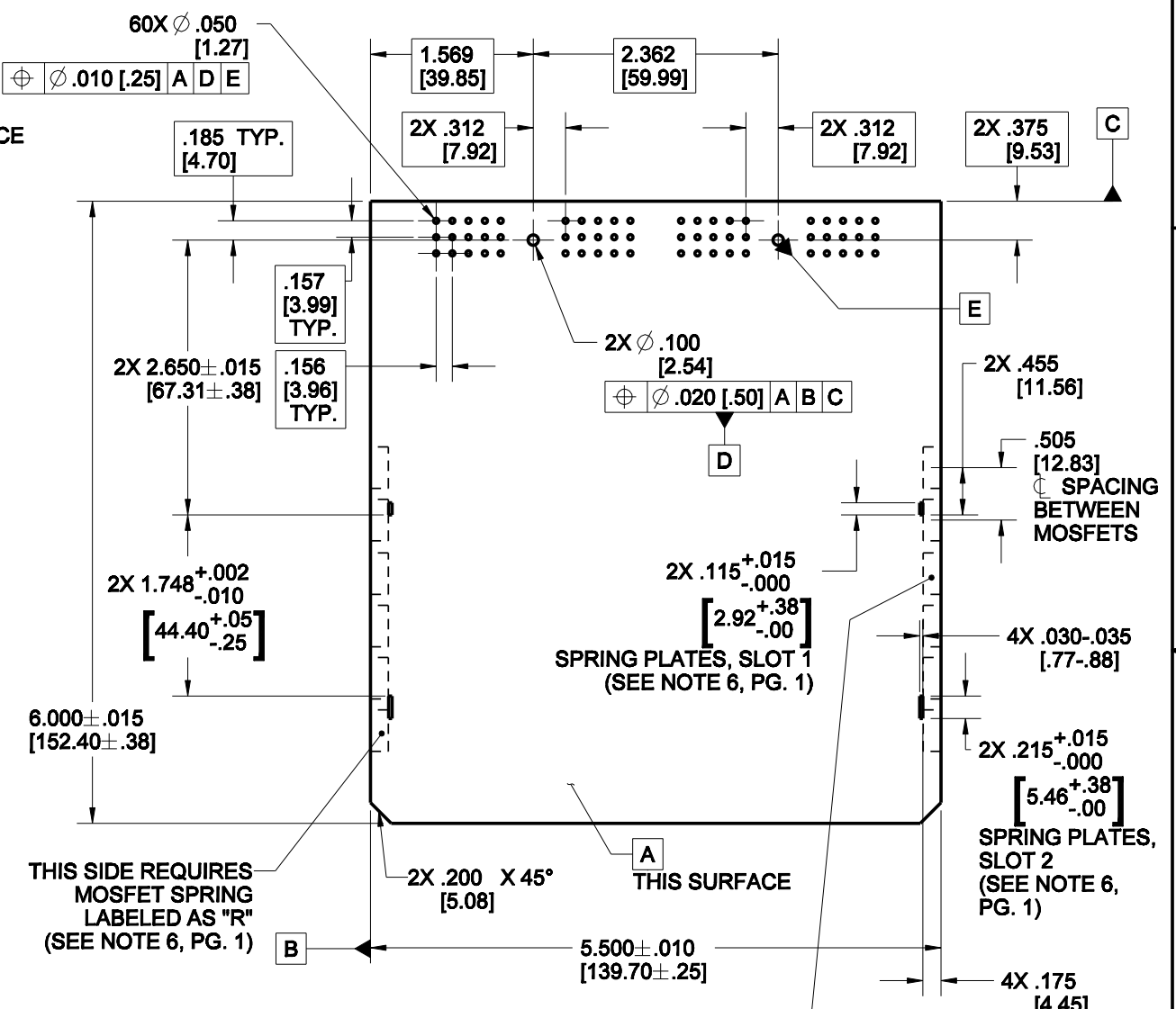
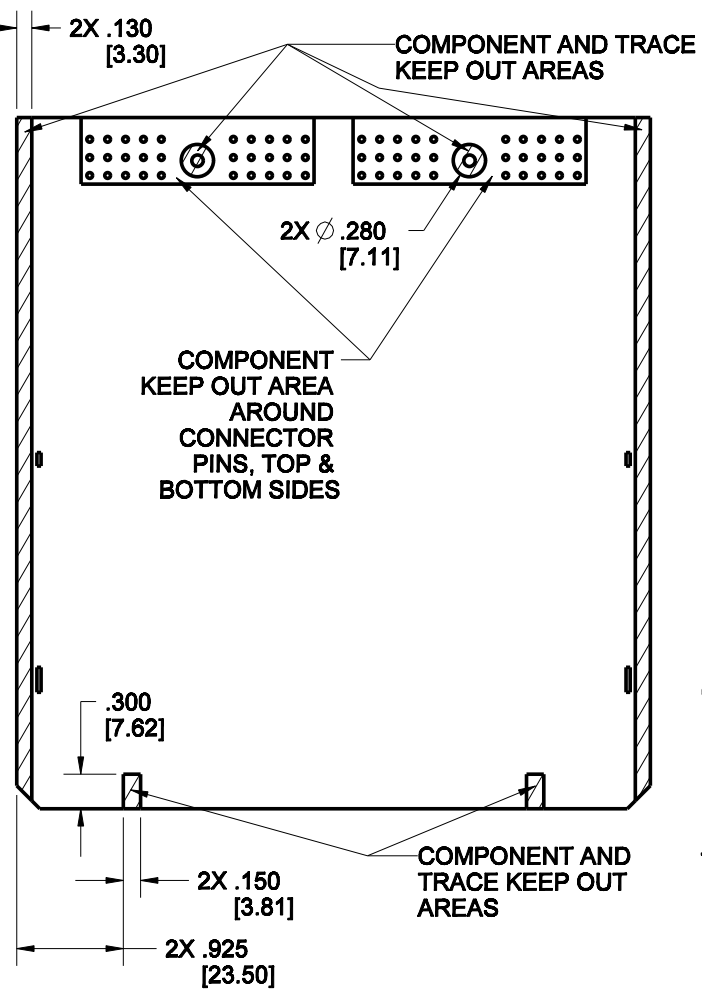
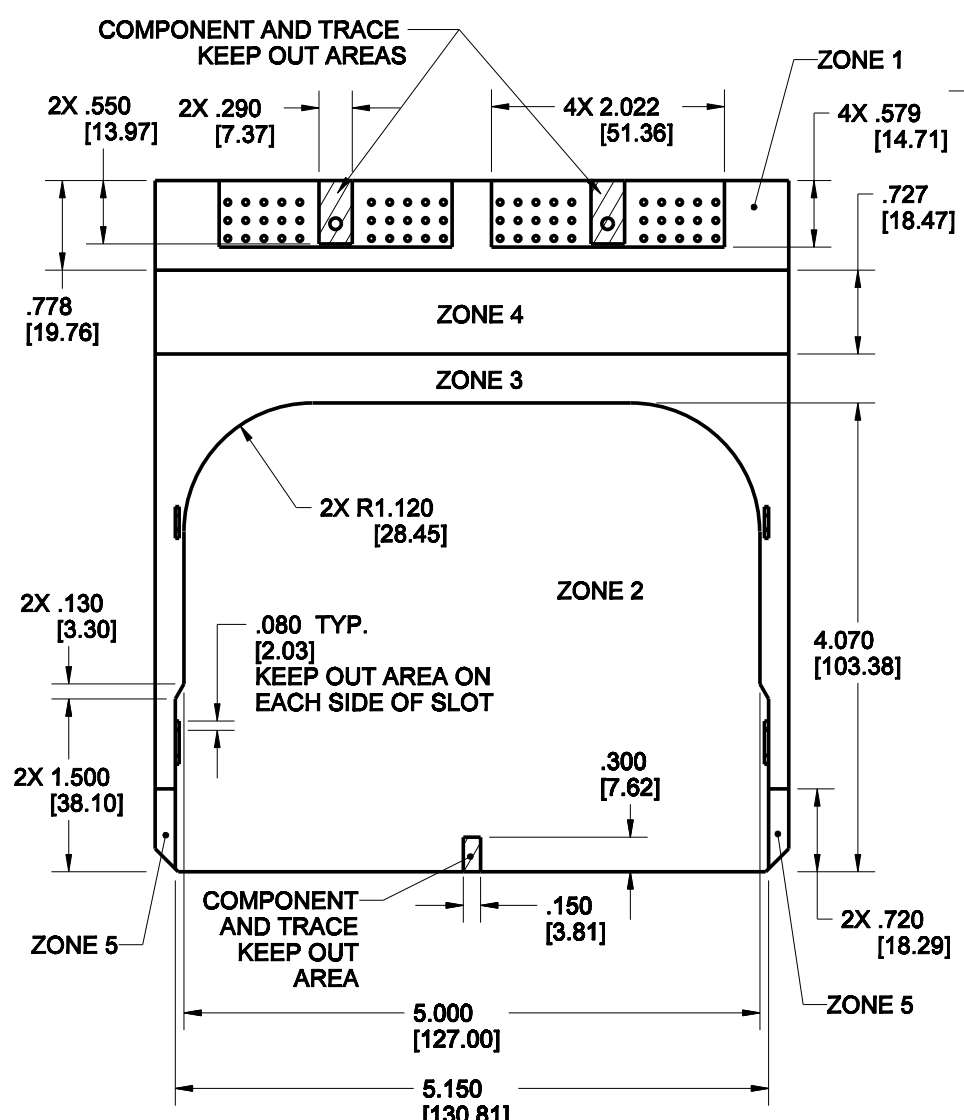
UNITS	ENGLISH		Cinch		1700 FINLEY RD LOMBARD, IL 60148	
DO NOT SCALE DRAWING					TITLE	
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES			PRO/E DRAWING			
FILLET/RADI .02 MAX			TOLERANCES		CAGE IDENT NO.	
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH			X ± .1 .XX ± .01 .XXX ± .005 ANGULAR ± .5		DRAWING NUMBER	
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.			71785		581 01 60 005S	
			SCALE		REV	
			3:5		C	
			SHEET 3 OF 6			

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 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.

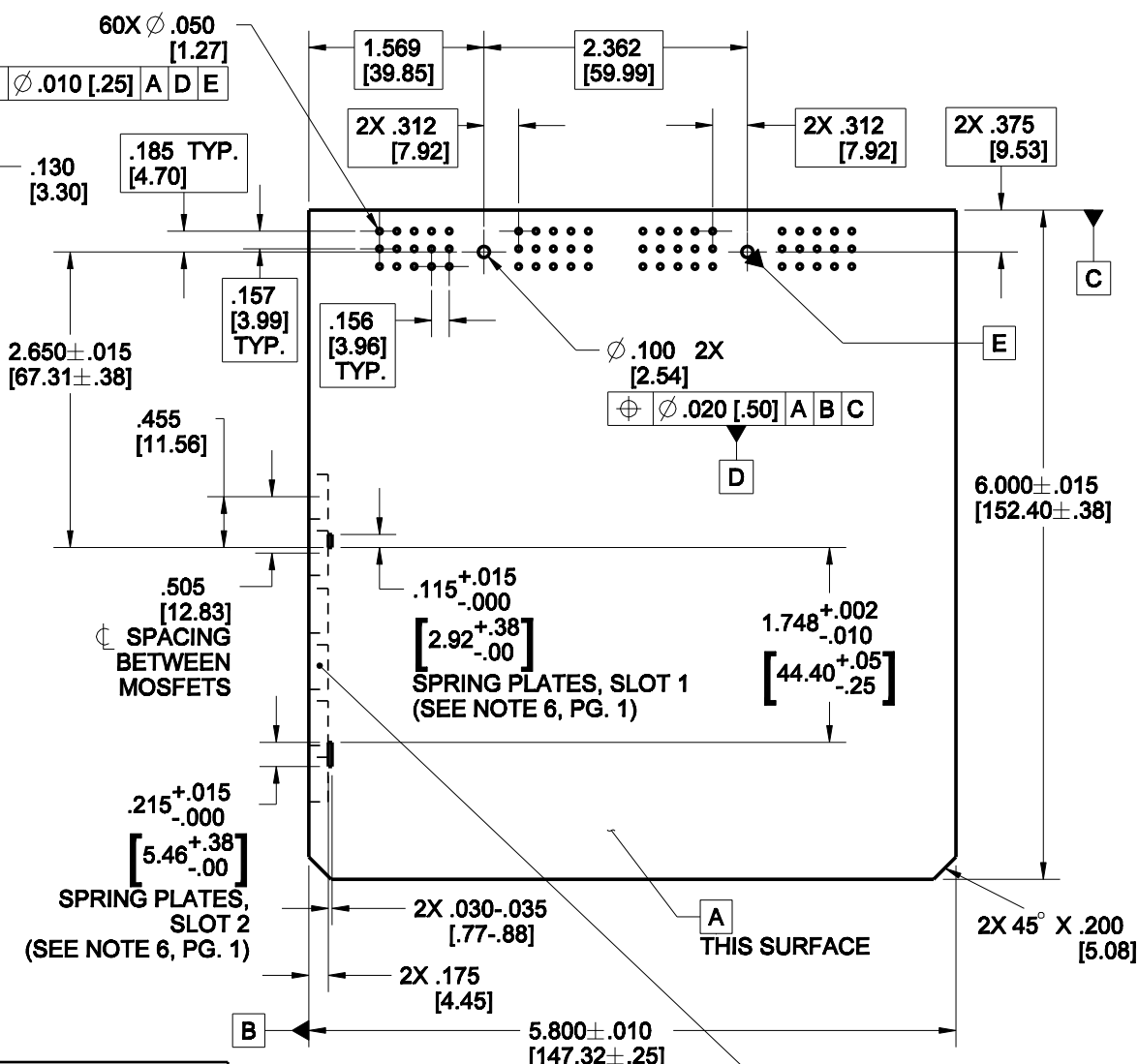
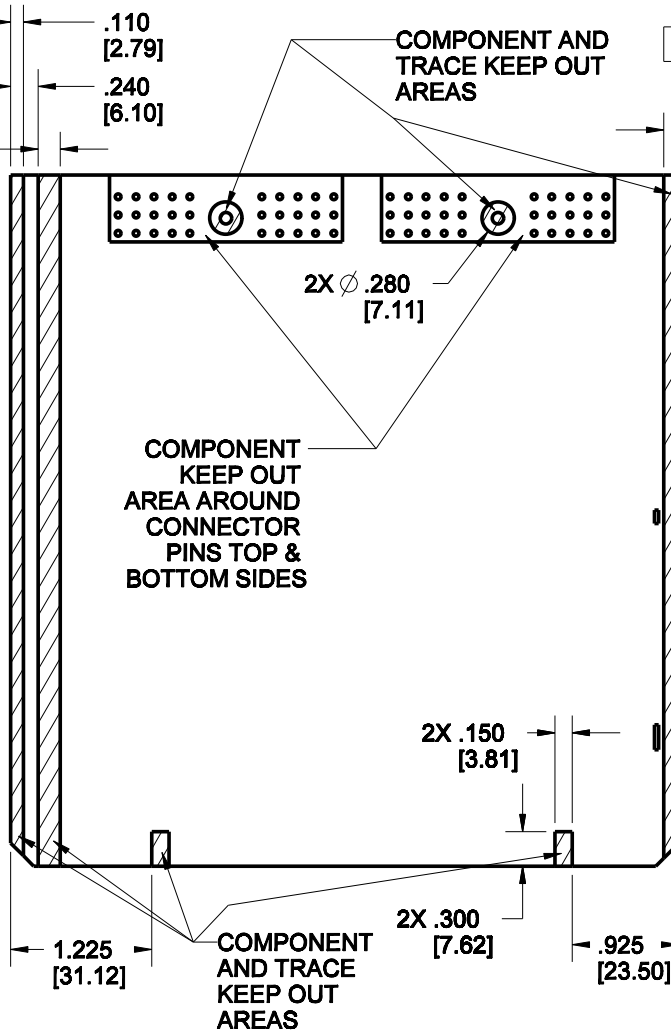
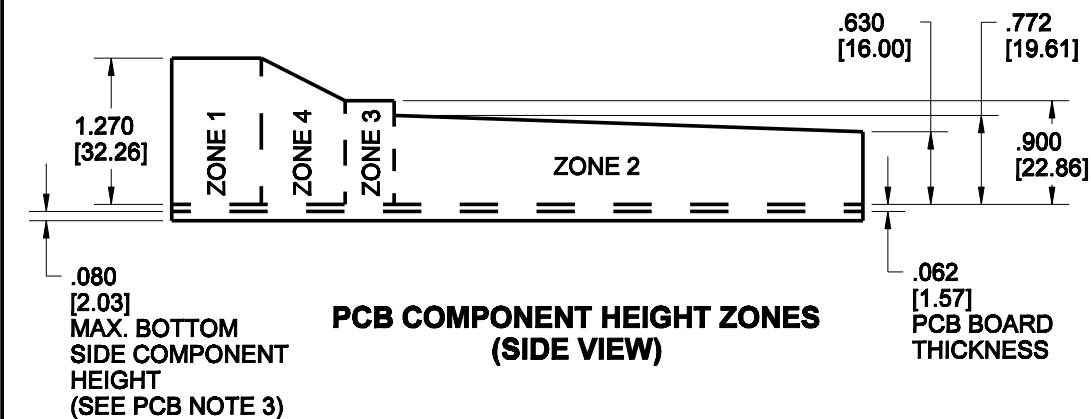
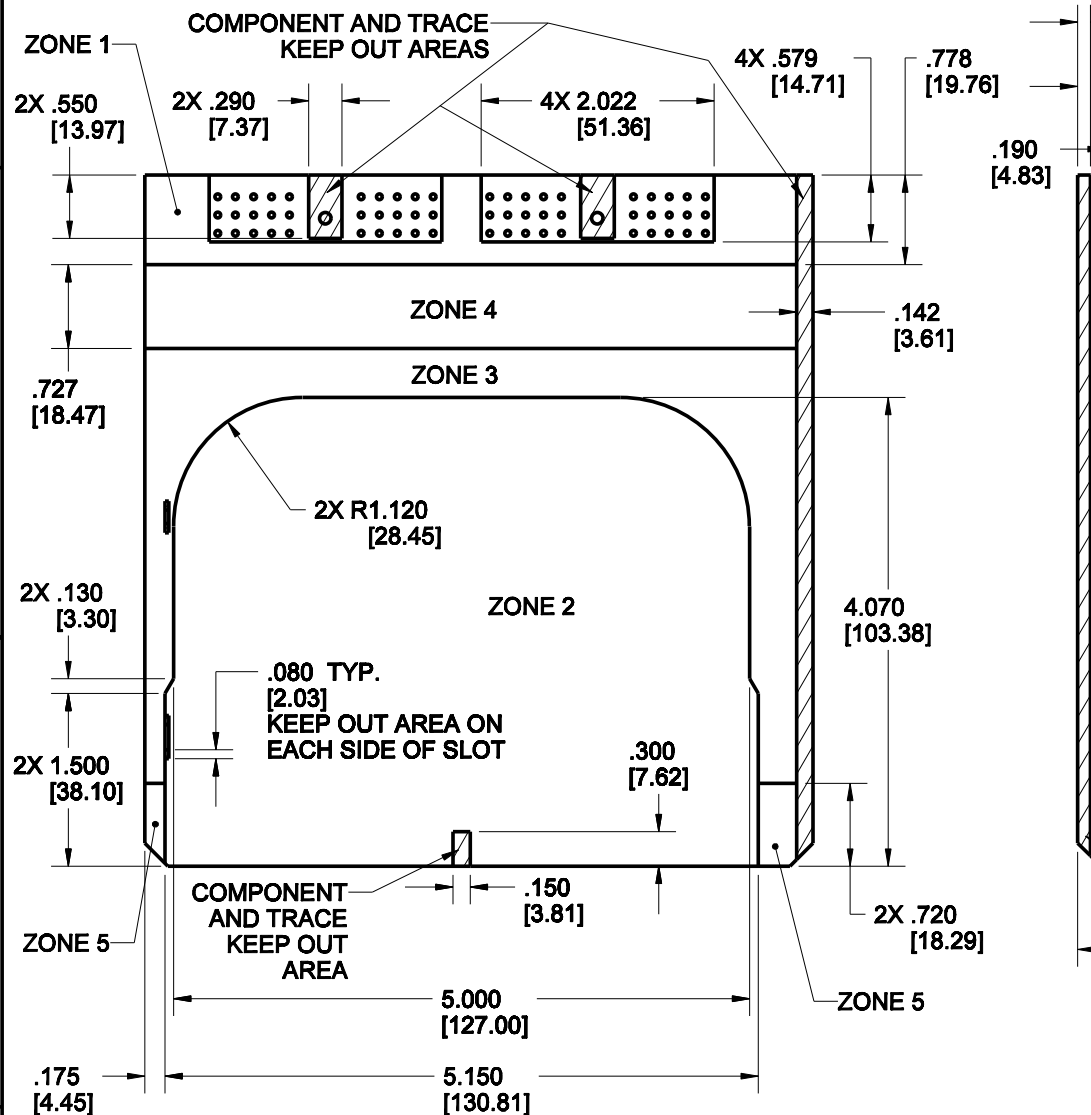
UNITS	ENGLISH				1700 FINLEY RD LOMBARD, IL. 60148	
DO NOT SCALE DRAWING					TITLE	
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES			TITLE		60-WAY HEADERS LE MODICE	
FILLET/RADI .02 MAX			TOLERANCES		X \pm .1	
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH			.XX \pm .01		.XXX \pm .005	
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			SIZE		B	
			SCALE		3:5	
			DRAWING NUMBER		581 01 60 005S	
			REV		C	
			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.

UNITS ENGLISH

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES

FILLET/RADI .02 MAX TOLERANCES .X ± .1 .XX ± .01 .XXX ± .005 ANGULAR ± .5

TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH

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Cinch 1700 FINLEY RD LOMBARD, IL 60148

TITLE 60-WAY HEADERS LE MODICE

PRO/E DRAWING

CAD FILE NUMBER 5810160005_HEADER DRAWING NUMBER 581 01 60 005S REV C

CAGE IDENT NO. 71785 SIZE B SCALE 3:5 SHEET 5 OF 6

MOSFET LOCATION(S) MAX. 6 TO-220 STYLE MOSFETS THIS SIDE ONLY THIS SIDE REQUIRES MOSFET SPRING LABELED AS "R" (SEE NOTE 6, PG. 1)

8 7 6 5 4 3 2 1

D

D

C

C

B

B

A

8

7

6

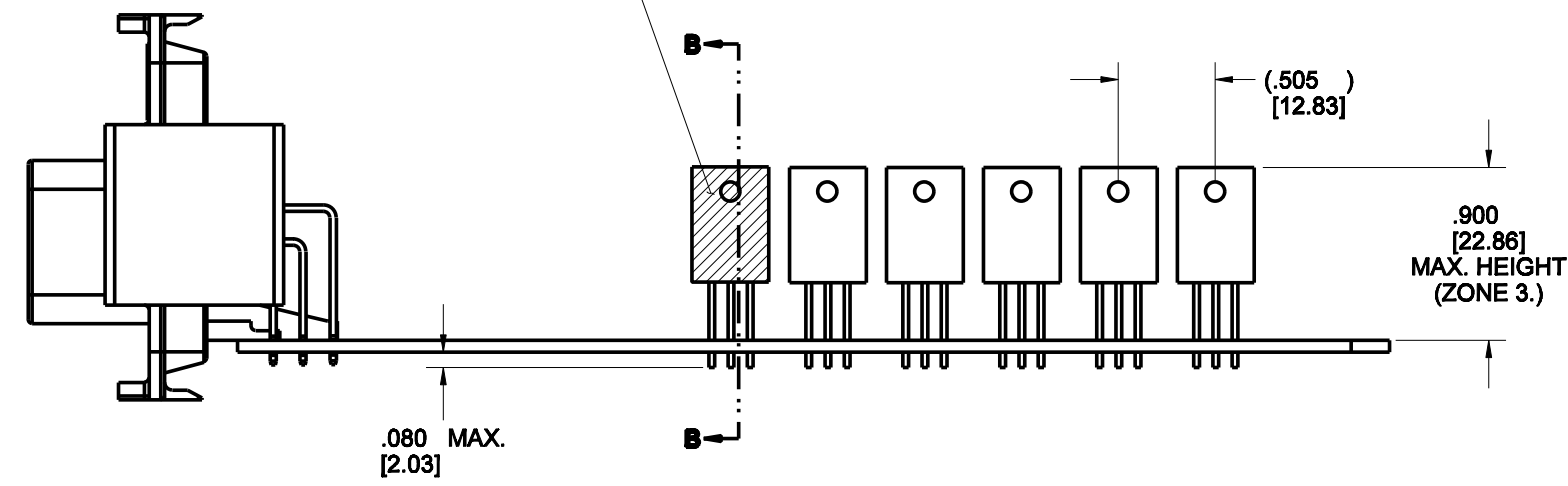
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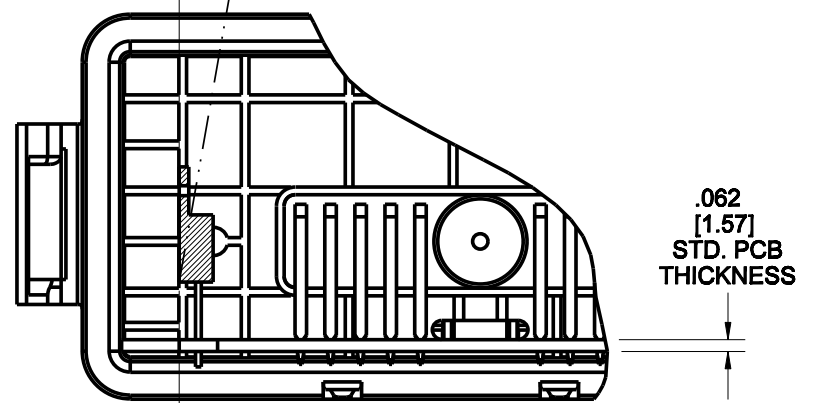
1

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

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



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



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 60-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			
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CAGE IDENT NO. 71785	SIZE B	SCALE 1:1	SHEET 6 OF 6		

8 7 6 5 4 3 2 1