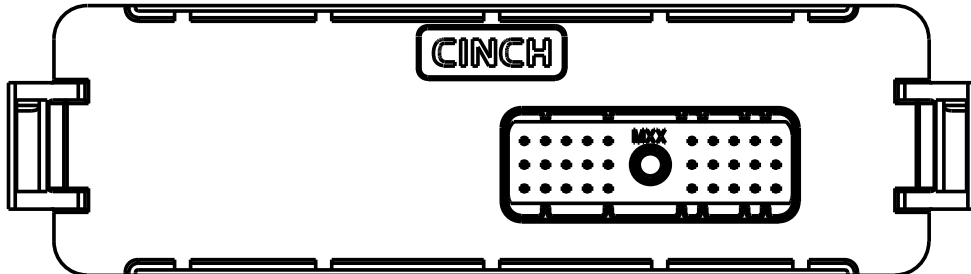
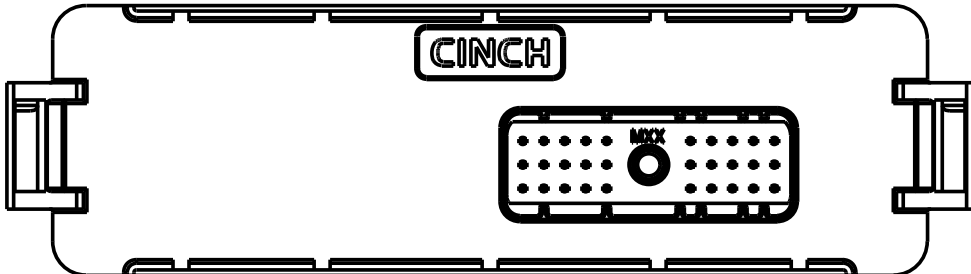
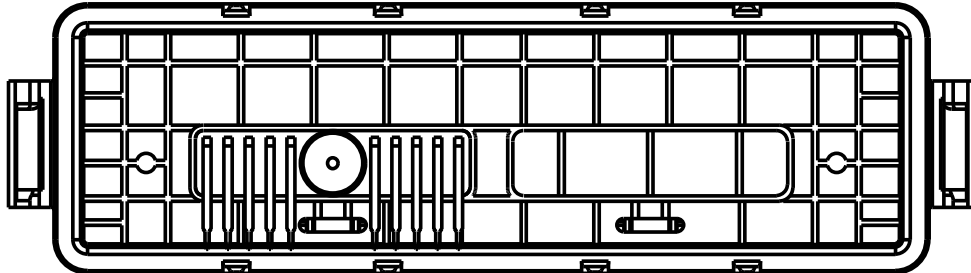
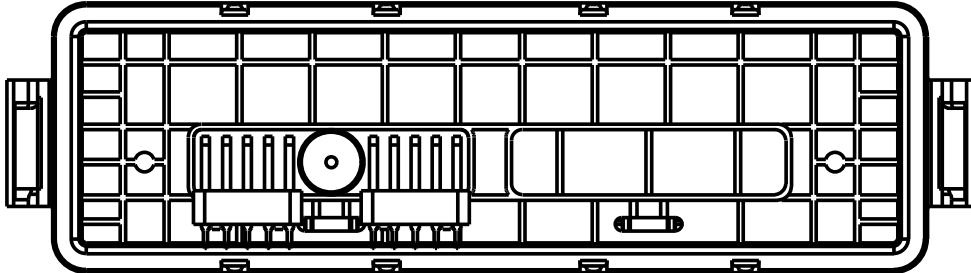
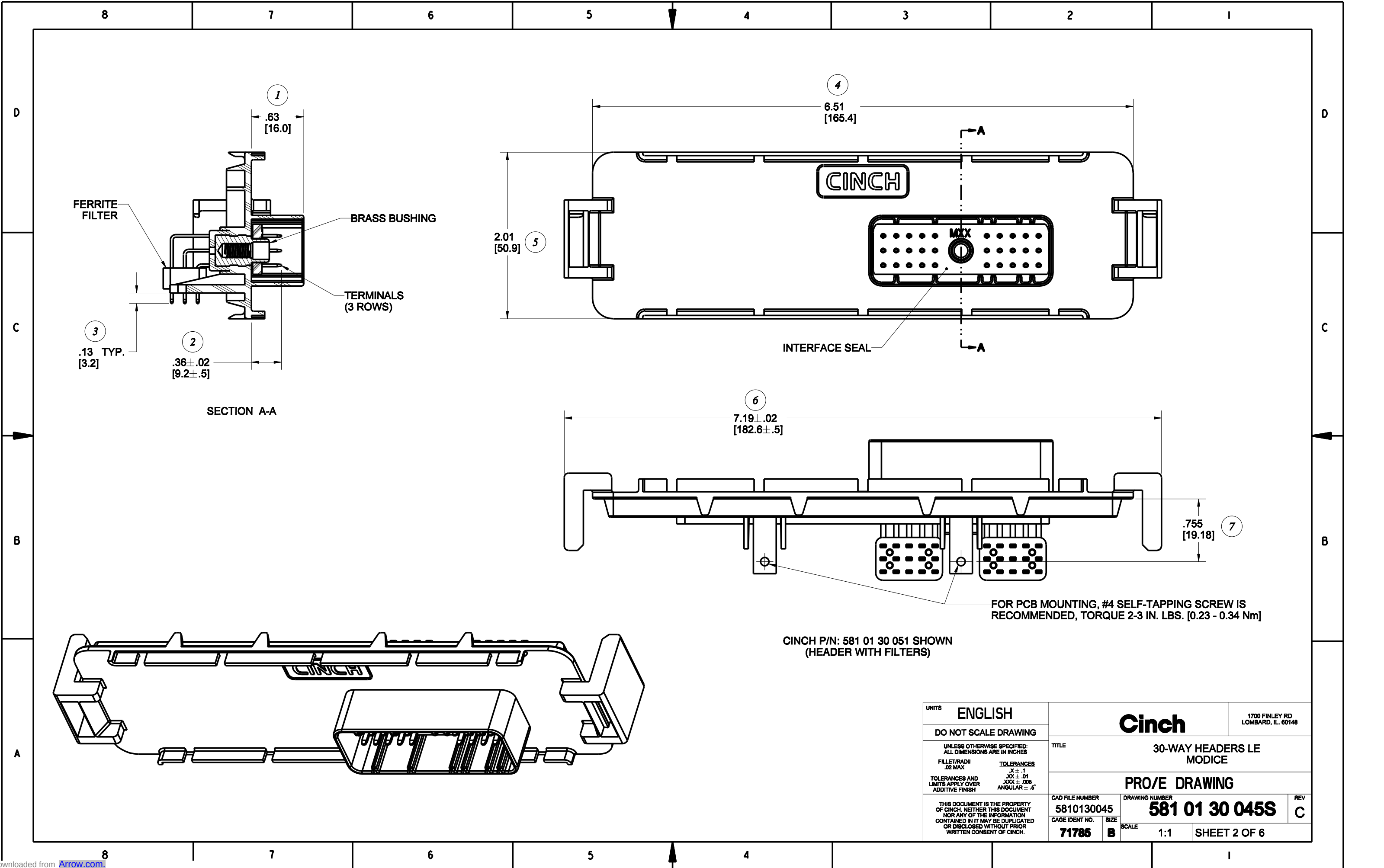


8	7	6	5	4	3	2	1		
CINCH PART NUMBER MATRIX						DRAWING REVISIONS			
P/N: 581 01 30 045			P/N: 581 01 30 051			REV	DOCUMENT	APP	DATE
30-WAY HEADER ASSEMBLY WITH OUT FERRITE FILTERS			30-WAY HEADER ASSEMBLY WITH FERRITE FILTERS			A	D.O. 05-1217 REL. FOR PRODUCTION	A.C.	9/9/05
						B	ECN: 06A069 ADDED SHEET 5 ADDED SHEET 6 MODIFIED SHEET 3 MODIFIED SHEET 4	A.C.	3/24/06
						C	ECN: 06A479 REFORMATTED DRAWING PCB LAYOUTS REDRAWN WITH ADDITIONAL KEEP OUT AREAS	A.C.	1/22/07
MATES WITH CINCH HARNESS CONNECTORS P/N: 581 01 30 029 (30-WAY)									
NOTE:									
1. ALL DIMENSIONS ARE IN INCHES; DIMENSIONS 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 OR 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			
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		DRAWN BY B. KOSTIC		DATE 9/02/05		TITLE 30-WAY HEADERS LE MODICE	
FILLET/RADII .02 MAX		TOLERANCES X ± .1 XX ± .01 XXX ± .005 ANGULAR ± .5°		DESIGN ENGINEER B. KOSTIC		9/02/05		MATERIAL	
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH				DESIGN ENGINEERING MGR. A. CAINES		9/5/05		MATERIAL SPEC 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.				MFG. ENGINEERING R. GARZA		9/15/05		CAD FILE NUMBER 5810130045	
				QUALITY ASSURANCE D. DE LA PENA		9/15/05		CAGE IDENT NO. 71785	
								DRAWING NUMBER 581 01 30 045S	
								SCALE 7:10	
								SHEET 1 OF 6	



SECTION A-A

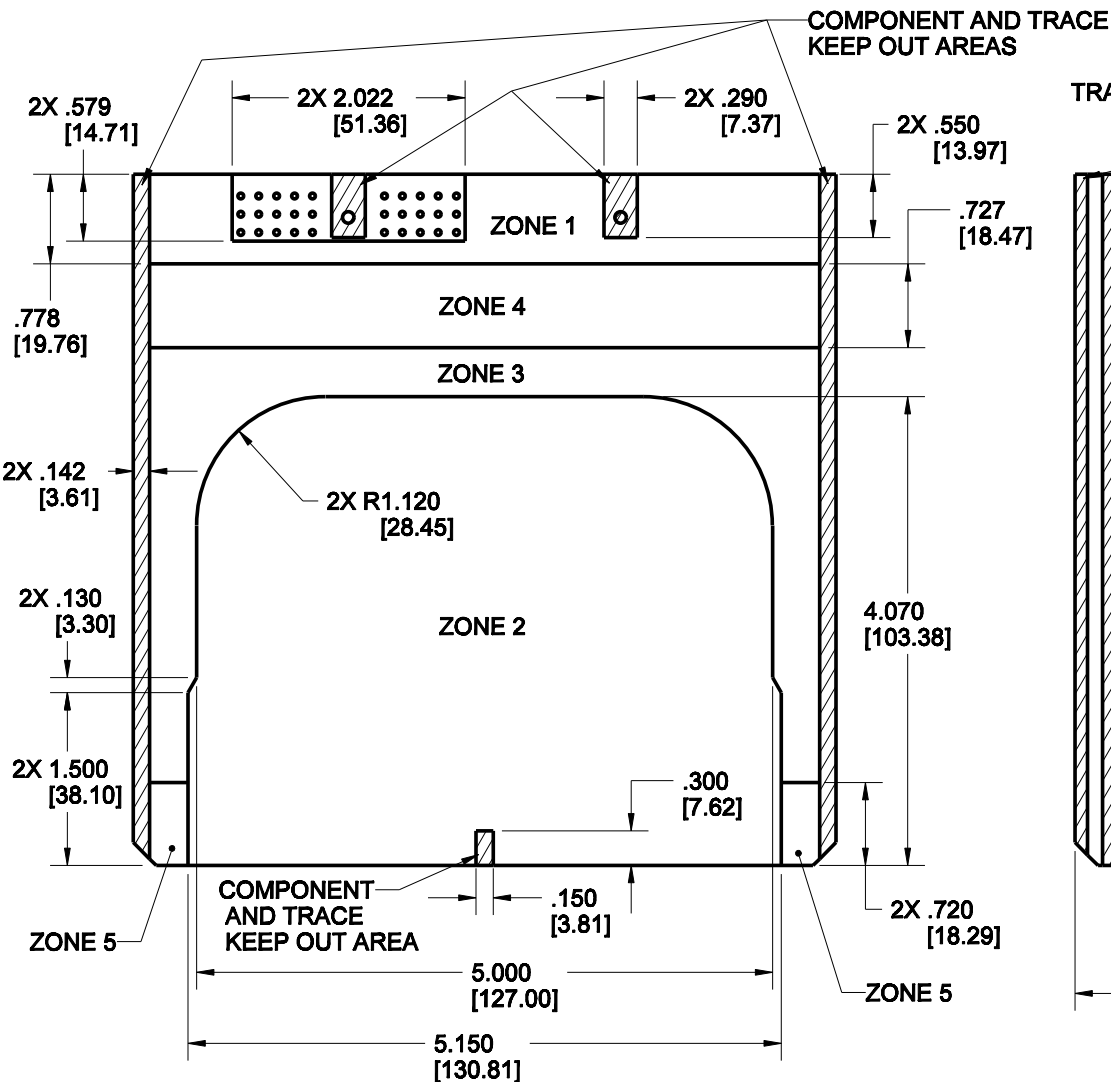
CINCH P/N: 581 01 30 051 SHOWN
(HEADER WITH FILTERS)

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

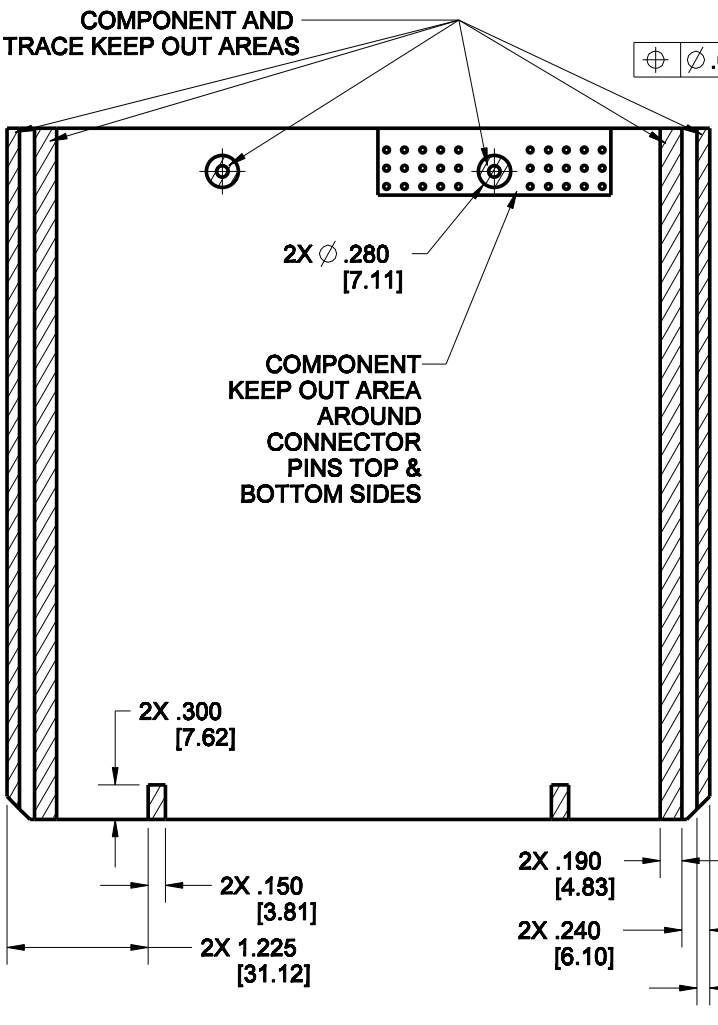
UNITS ENGLISH		Cinch		1700 FINLEY RD LOMBARD, IL. 60148		
DO NOT SCALE DRAWING						
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		TITLE 30-WAY HEADERS LE MODICE				
FILLET/RADI .02 MAX		TOLERANCES X ± .1 .XX ± .01 .XXX ± .005 ANGULAR ± .5°				
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH		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 5810130045		DRAWING NUMBER 581 01 30 045S		REV C
		CAGE IDENT NO. 71785	SIZE B	SCALE 1:1	SHEET 2 OF 6	

PCB LAY-OUT WITHOUT HEAT SINKS

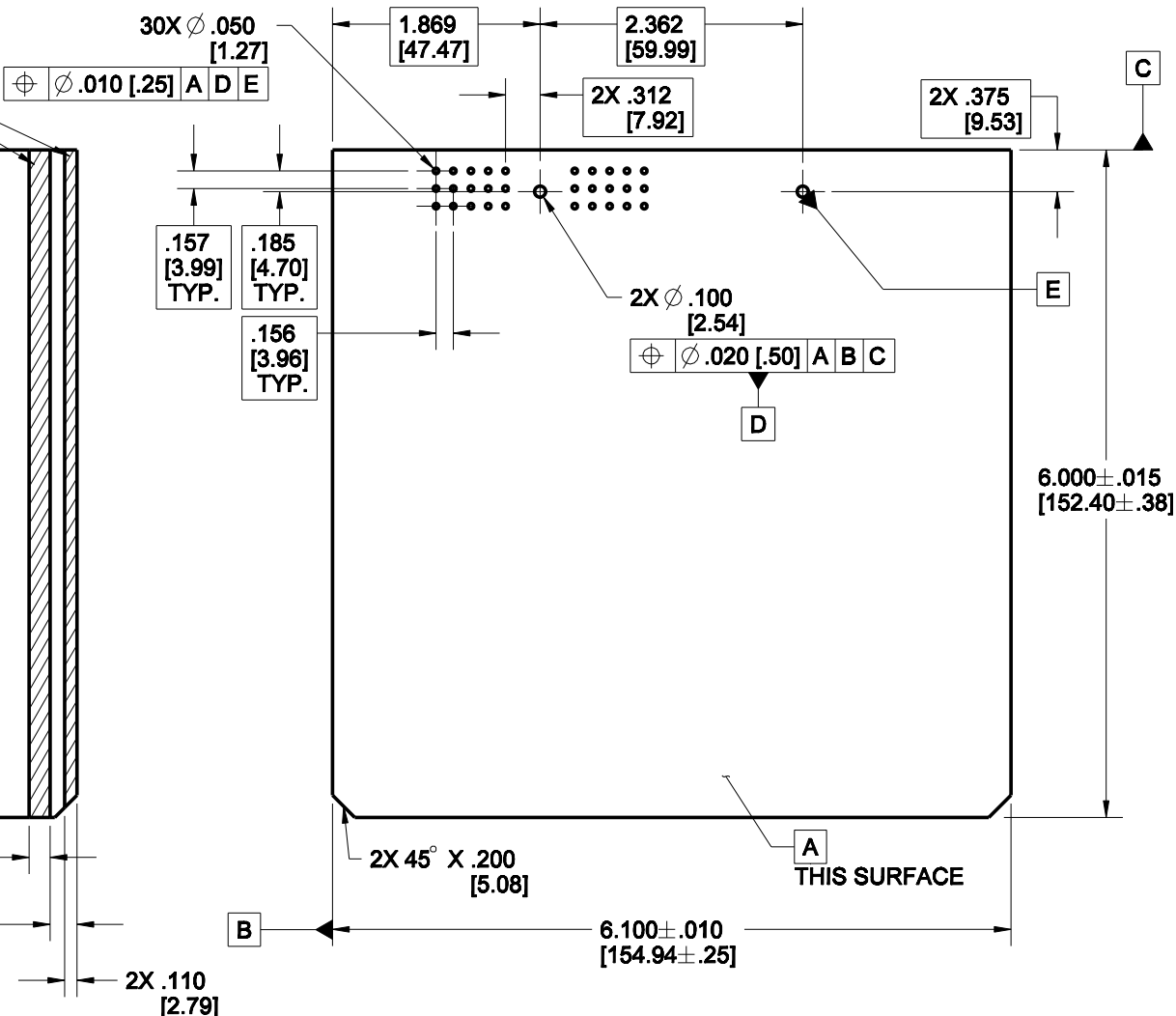
PCB TOP SIDE GENERAL ZONING & KEEP OUT AREAS



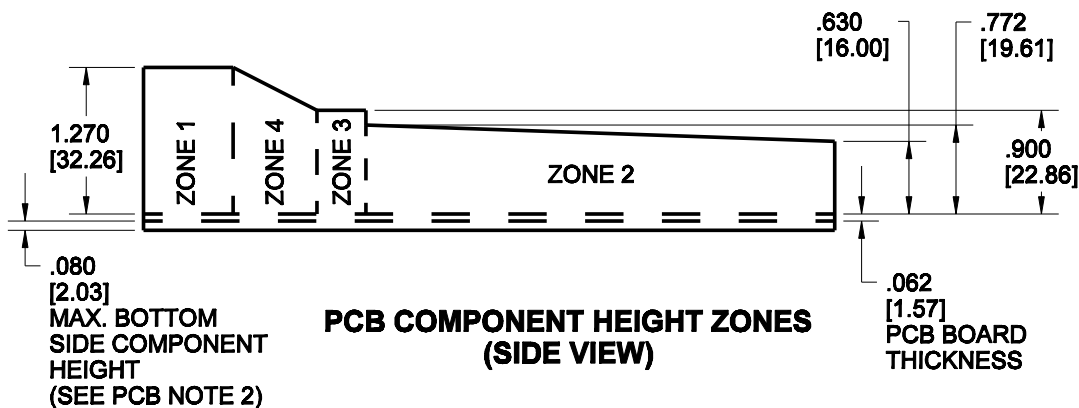
PCB BOTTOM SIDE GENERAL ZONING & KEEP OUT AREAS



PCB OVERALL DIMENSIONS AND HOLE LOCATIONS



PCB 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:
- 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.

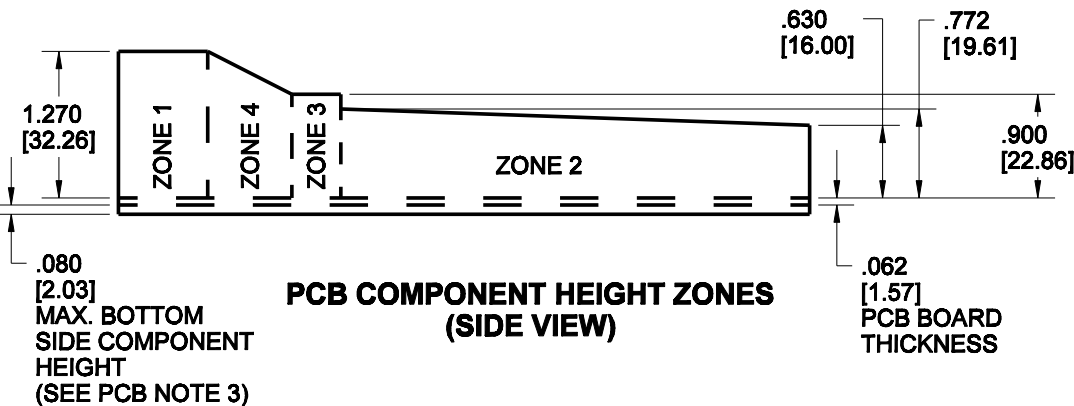
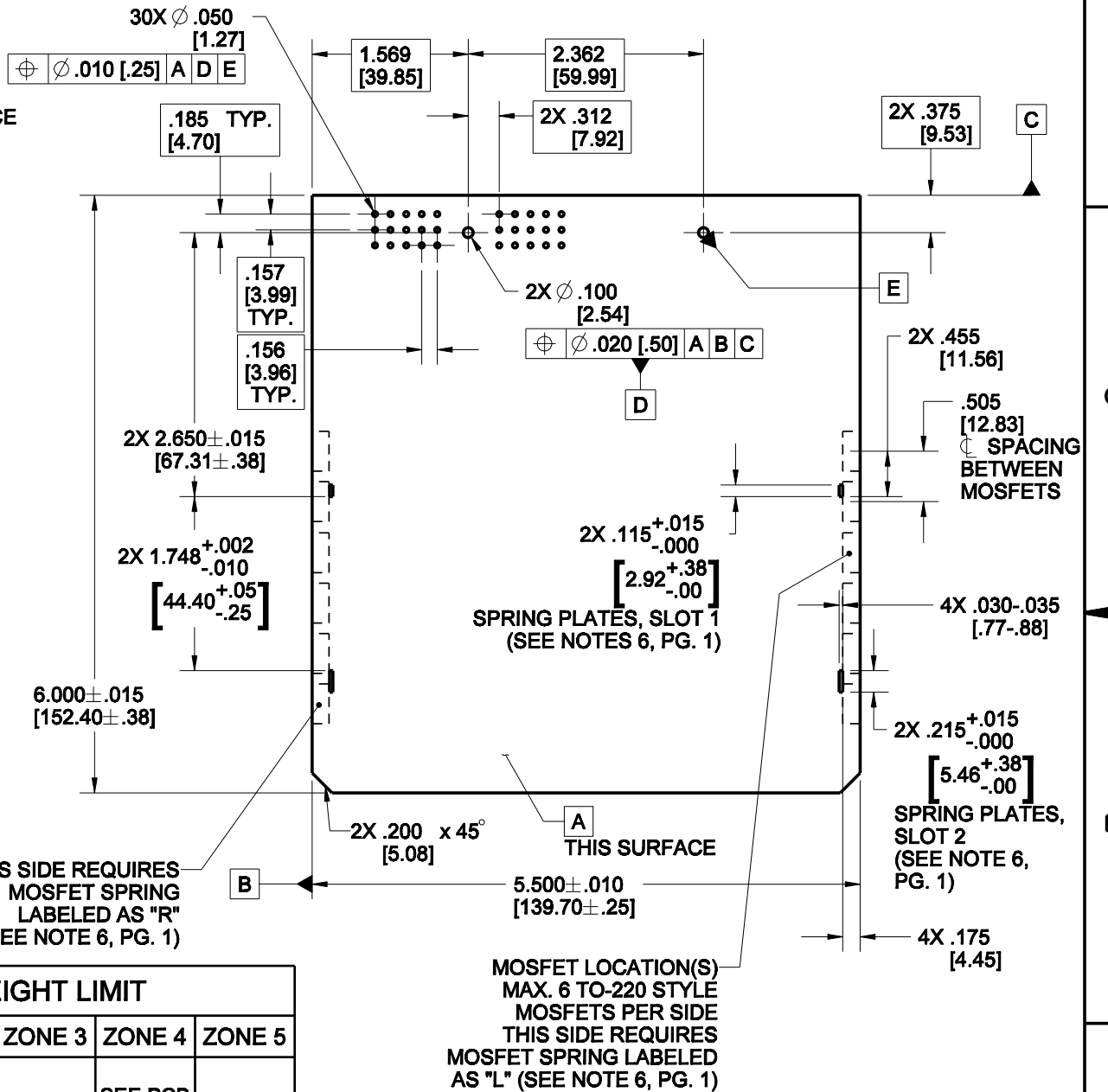
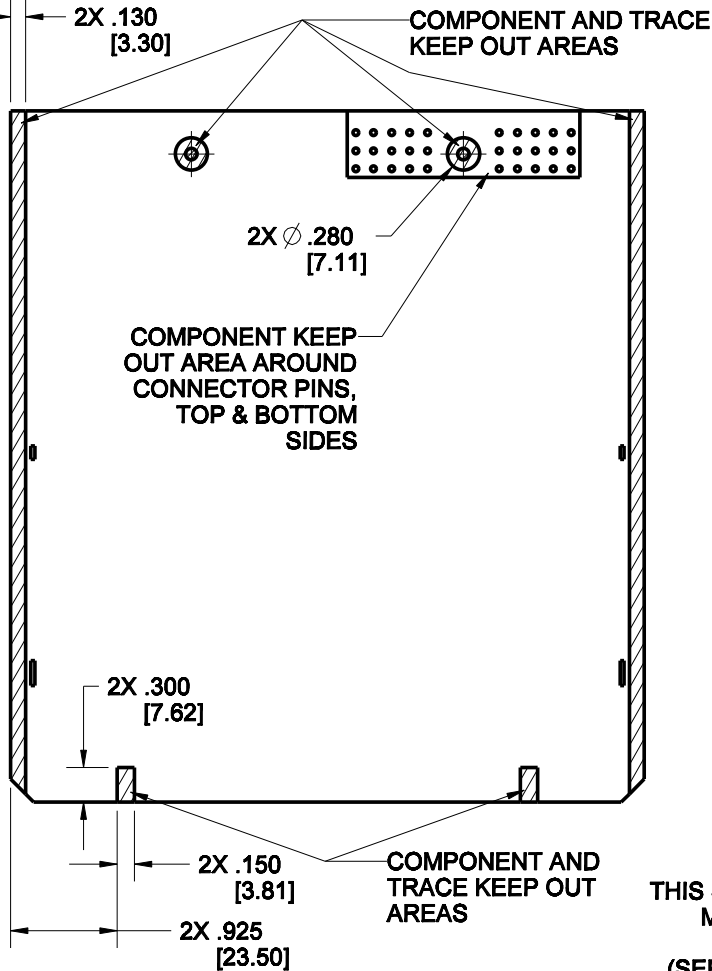
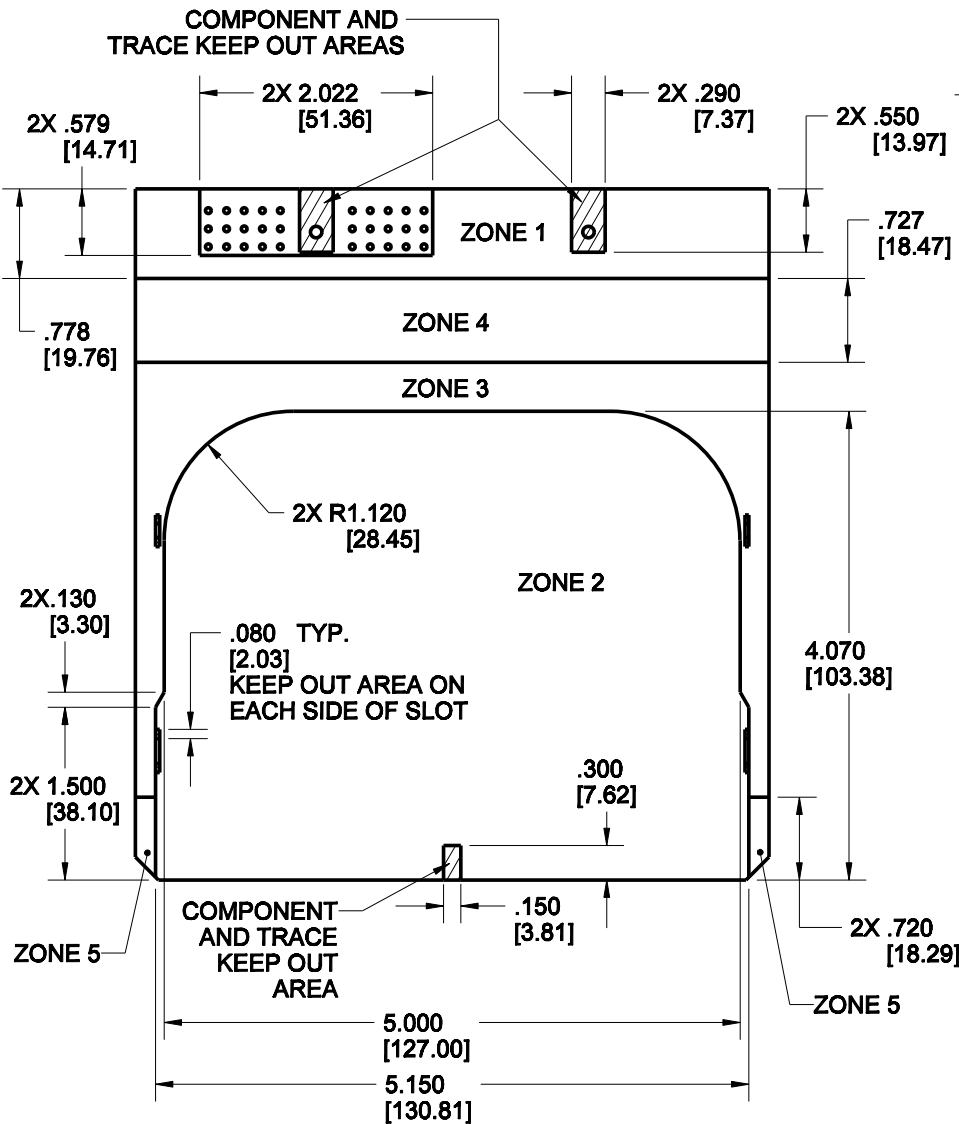
UNITS	ENGLISH	Cinch		1700 FINLEY RD LOMBARD, IL. 60148	
DO NOT SCALE DRAWING		TITLE 30-WAY HEADERS LE MODICE			
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES FILLET/RADI .02 MAX TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH		TOLERANCES X $\pm$.1 XX $\pm$.01 XXX $\pm$.005 ANGULAR $\pm$.5°			
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CAD FILE NUMBER 5810130045		DRAWING NUMBER 581 01 30 045S		REV 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"

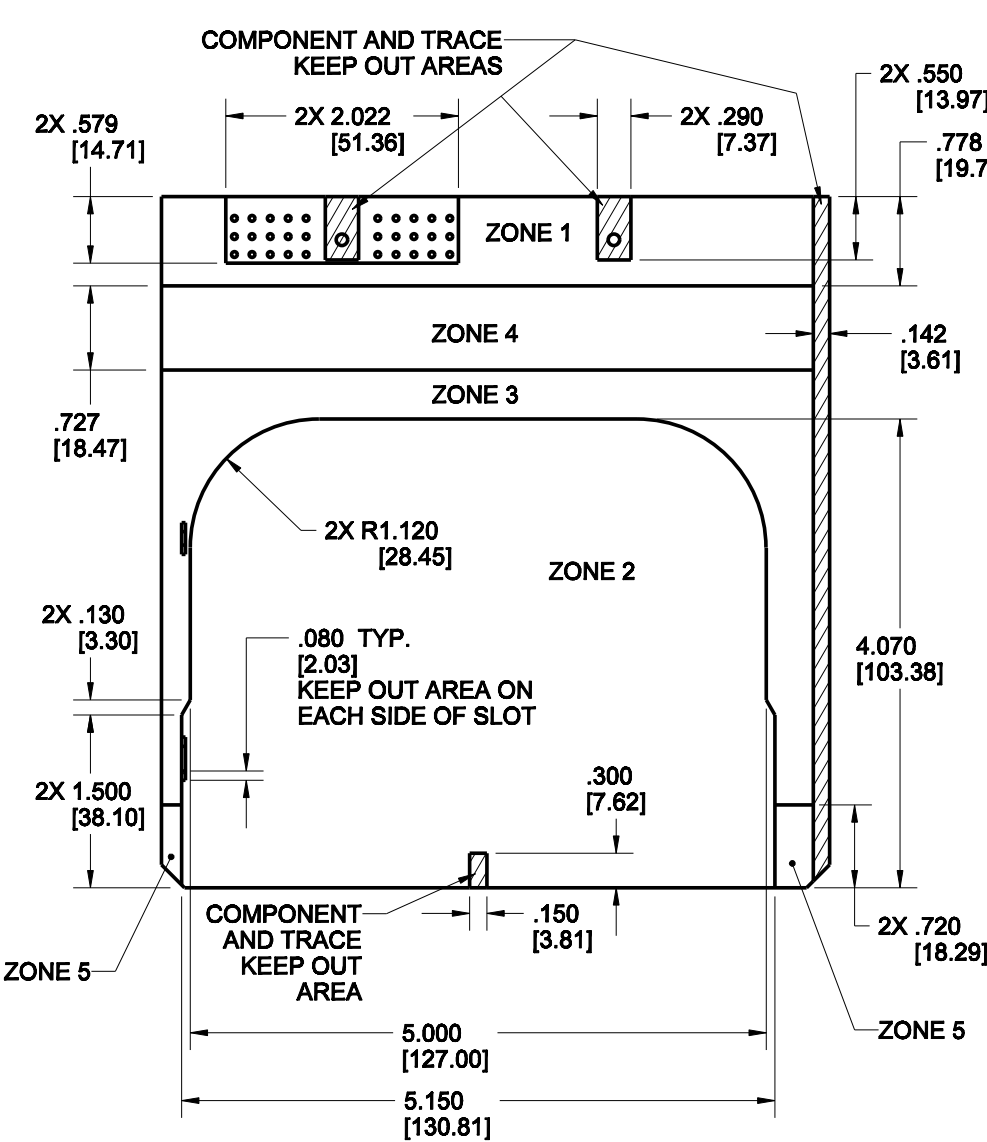
PCB NOTES:

- 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.

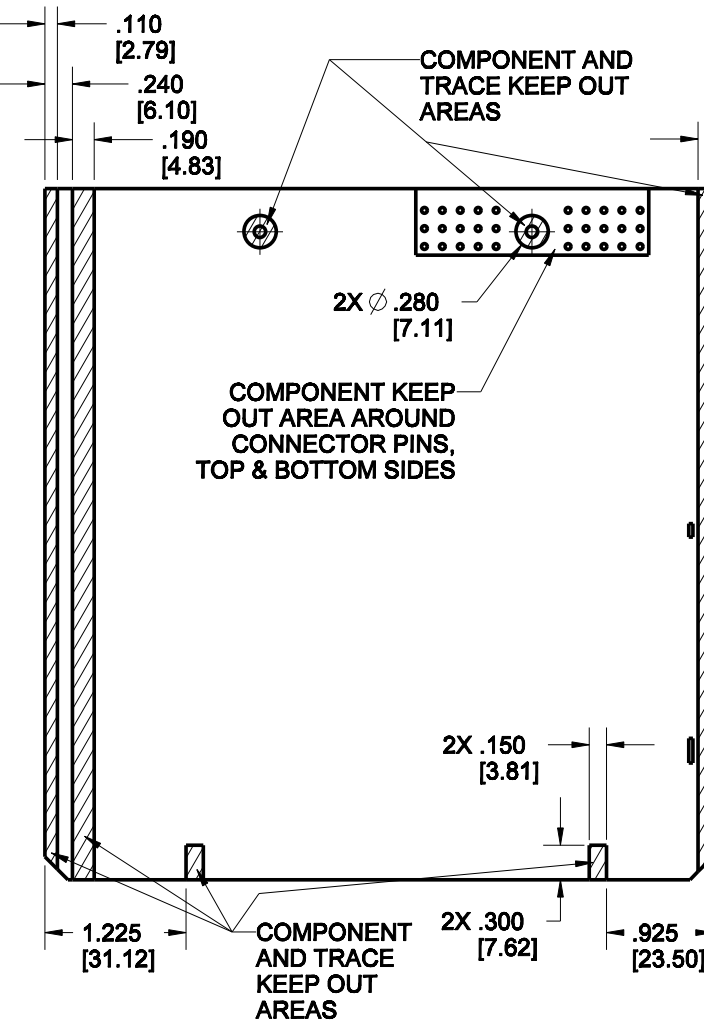
UNITS		ENGLISH		Cinch		1700 FINLEY RD LOMBARD, IL. 60148					
DO NOT SCALE DRAWING											
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES				TITLE							
FILLET/RADI .02 MAX				TOLERANCES X ± .1 XX ± .01 XXX ± .005 ANGULAR ± .5°							
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH				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			
				5810130045		581 01 30 045S		C			
				CAGE IDENT NO.		SIZE		SCALE		SHEET 4 OF 6	
				71785		B					

PCB LAY-OUT WITH ONE HEAT SINK

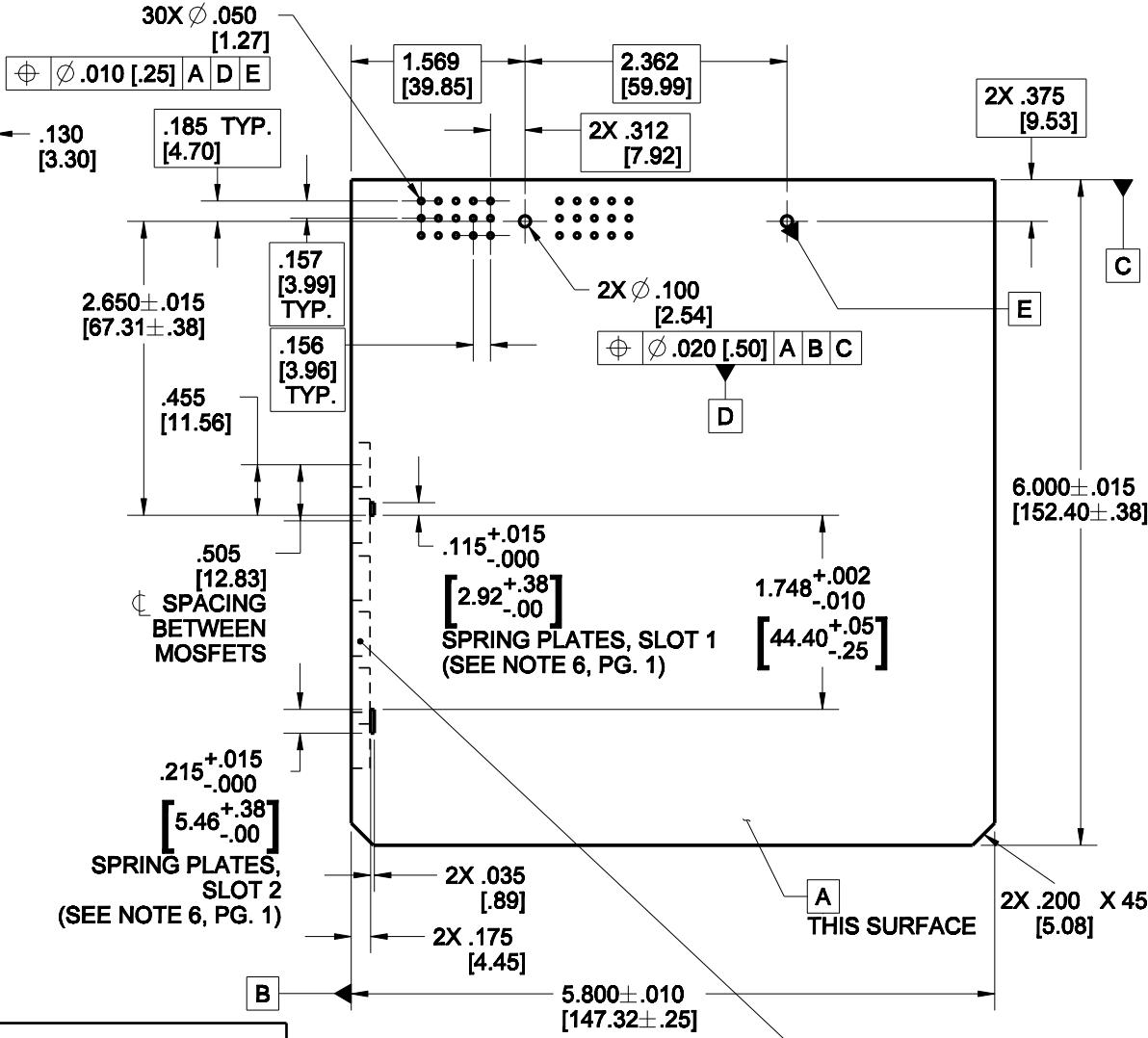
PCB TOP SIDE GENERAL ZONING & KEEP OUT AREAS



PCB BOTTOM SIDE GENERAL ZONING & KEEP OUT AREAS



PCB OVERALL DIMENSIONS AND HOLE LOCATIONS

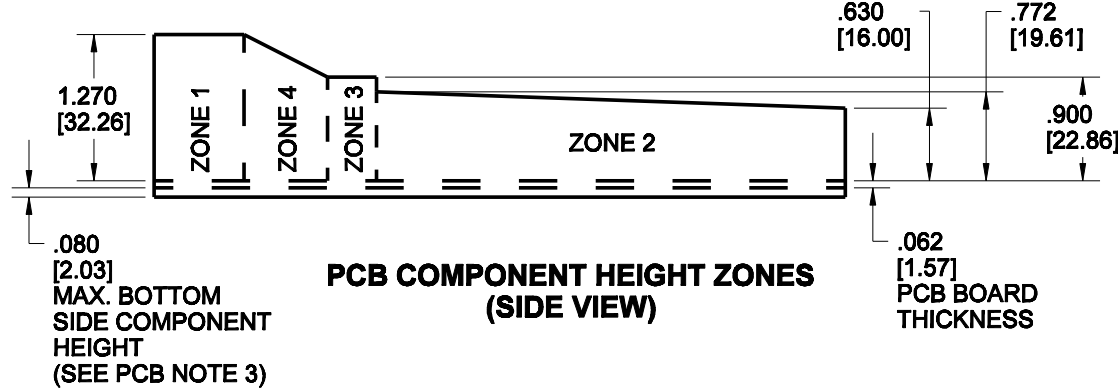


PCB COMPONENTS HEIGHT LIMIT

	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"

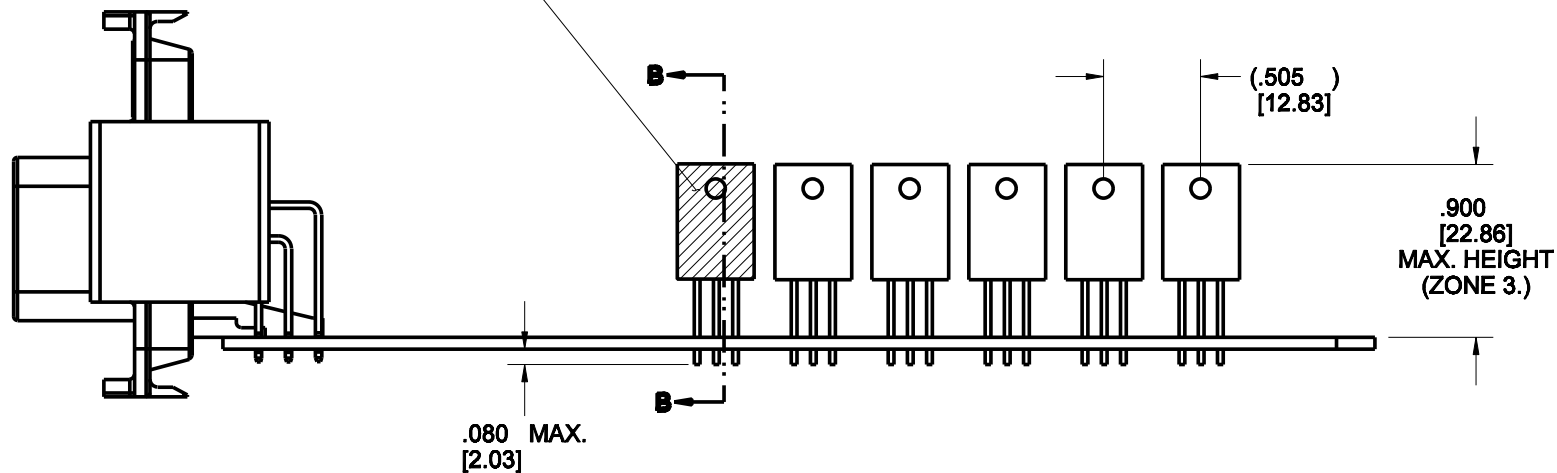
- PCB NOTES:
- IF MOSFET SPRINGS ARE USED, ZONE 3 SHOULD CONTAIN ONLY MOSFETS AND TRACES BETWEEN THE SPRINGS AND EDGE OF THE BOARD.
 - ON BOTTOM SIDE OF THE PCB, COMPONENTS OR TRACES MUST BE MIN. .100" AWAY FROM THE EDGE OF THE PCB.
 - THE BOTTOM SIDE OF THE PCB SHOULD NOT HAVE COMPONENTS OR LEADS THAT 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)



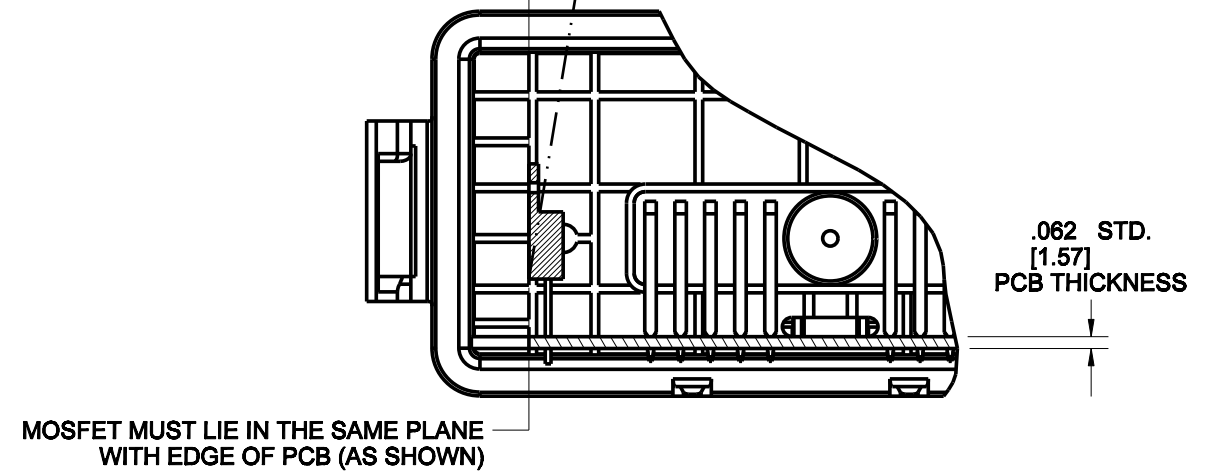
UNITS ENGLISH		Cinch		1700 FINLEY RD. LOMBARD, IL. 60148	
DO NOT SCALE DRAWING		30-WAY HEADERS LE MODICE			
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		TITLE			
FILLET/RADI .02 MAX		TOLERANCES X ± .1 .XX ± .01 .XXX ± .005 ANGULAR ± .5°			
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH		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.			
CAD FILE NUMBER 5810130045		DRAWING NUMBER 581 01 30 045S		REV C	
CAGE IDENT NO. 71785		SCALE 3:5		SHEET 5 OF 6	

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)



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	
FILLETS/RADI .02 MAX				30-WAY HEADERS LE MODICE	
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	
5810130045				DRAWING NUMBER	
CAGE IDENT NO.				REV	
71785				C	
SIZE				SCALE	
B				1:1	
				SHEET 6 OF 6	