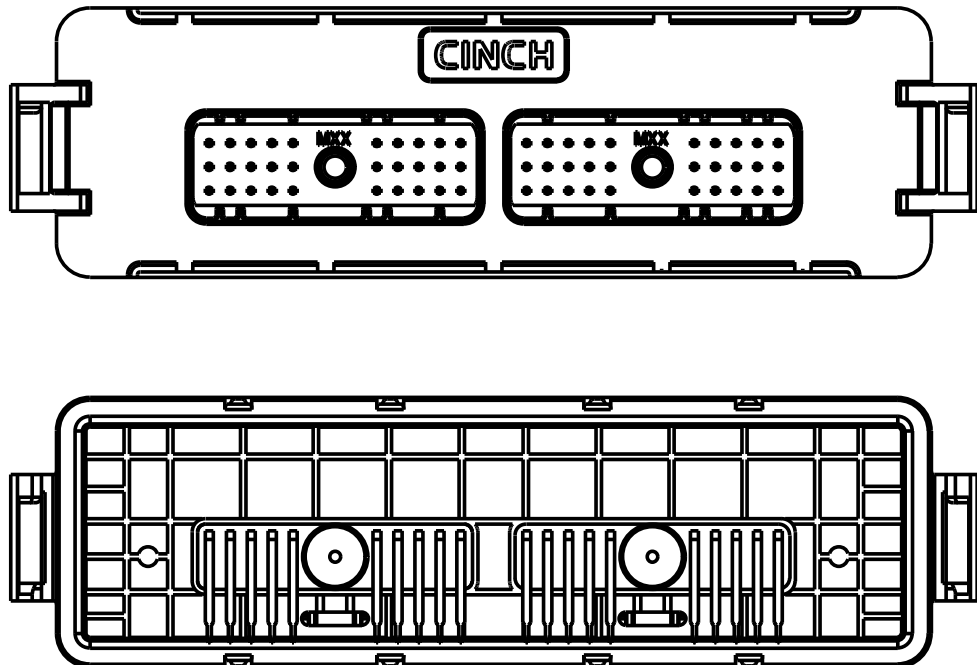
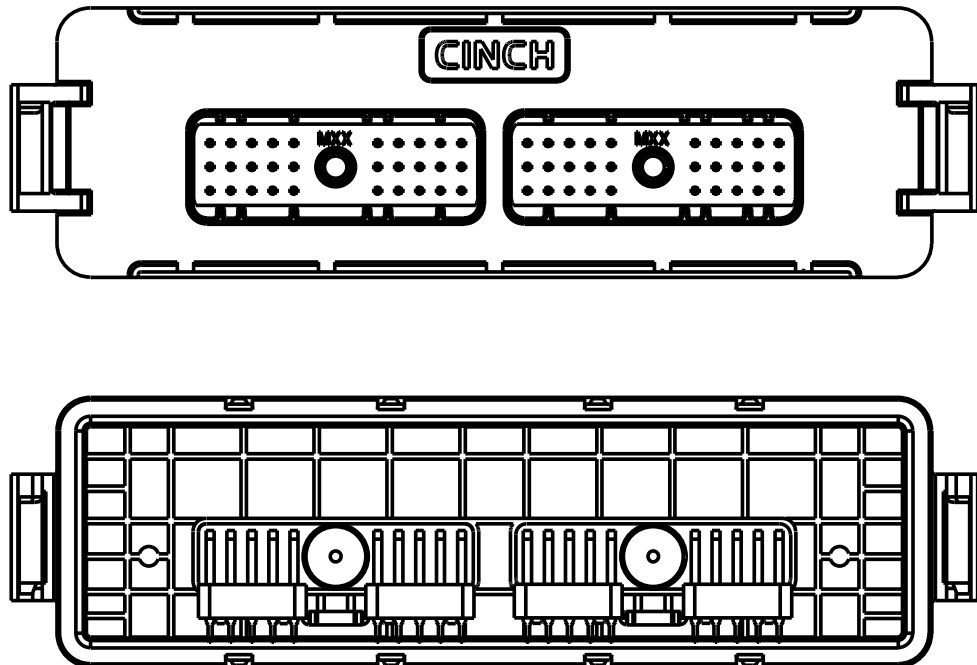
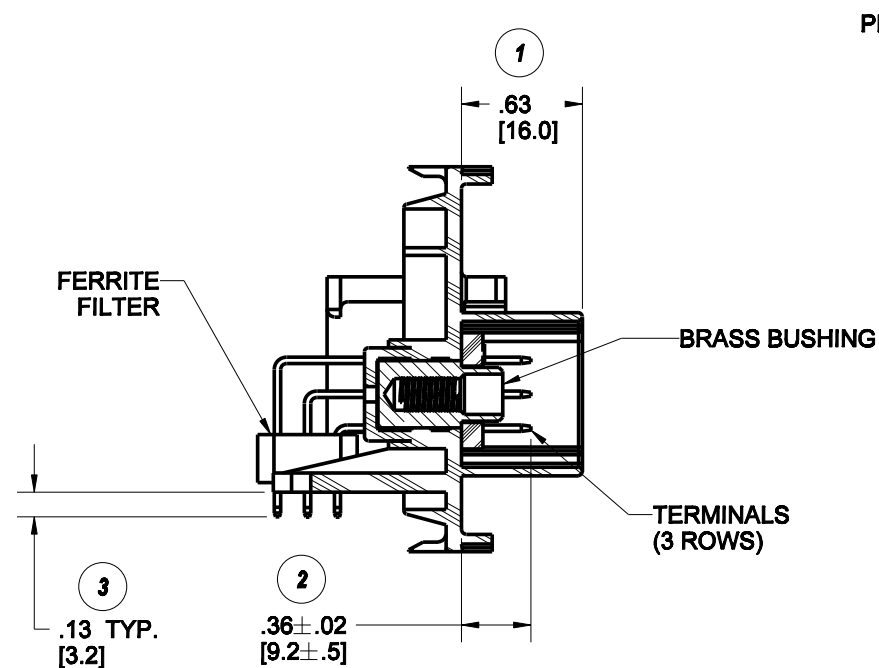
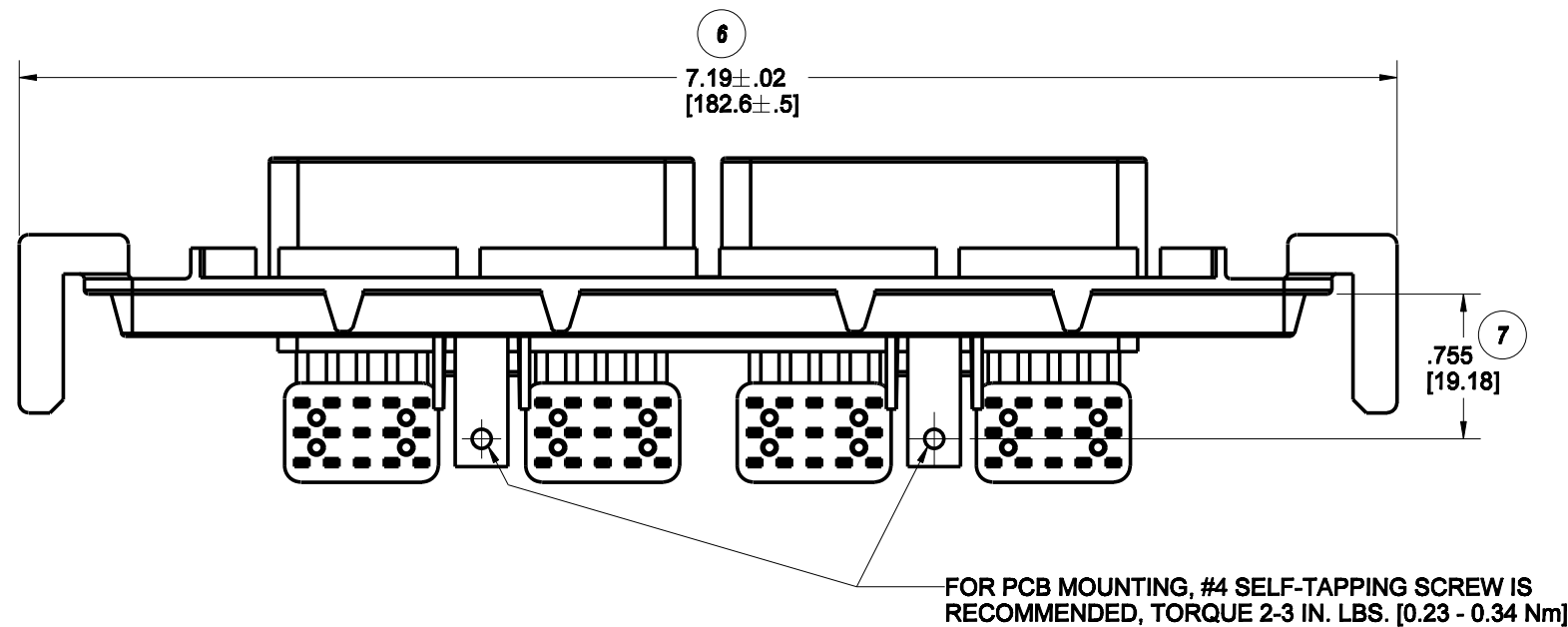
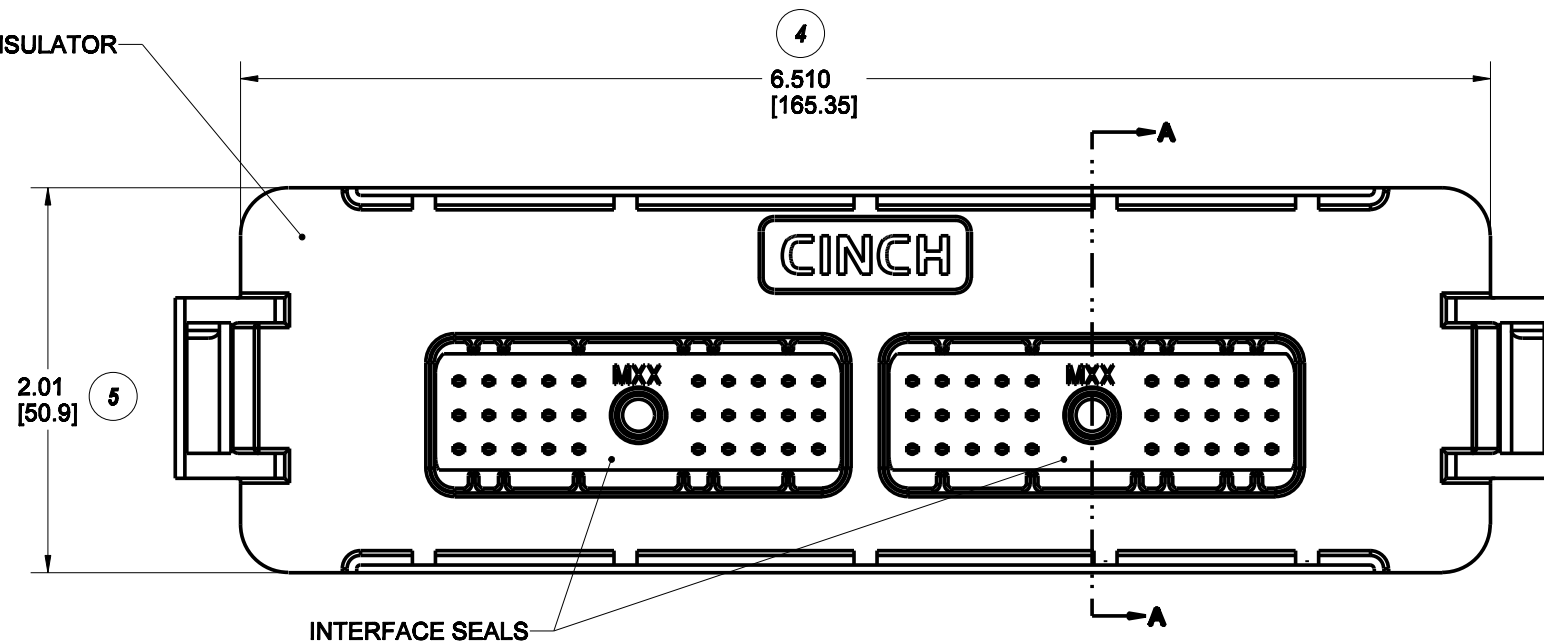


8		7		6		5		4		3		2		1	
CINCH PART NUMBER MATRIX												DRAWING REVISIONS			
P/N: 581 01 60 005						P/N: 581 01 60 006						REV	DOCUMENT	APP	DATE
60-WAY HEADER ASSEMBLY WITHOUT FERRITE FILTERS						60-WAY HEADER ASSEMBLY WITH FERRITE FILTERS						A	D.O. 05-1217 REL. FOR PRODUCTION	A.C.	9/9/05
												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
MATES WITH CINCH HARNESS CONNECTORS P/N: 581 01 30 028 (30-WAY) AND 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 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				60-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		9/5/05		FINISH				A 14562					
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		QUALITY ASSURANCE D. DE LA PENA		9/15/05		CAGE IDENT NO. 71785				SCALE 7:10					
						SIZE B				SHEET 1 OF 6					
8		7		6		5		4		3		2		1	

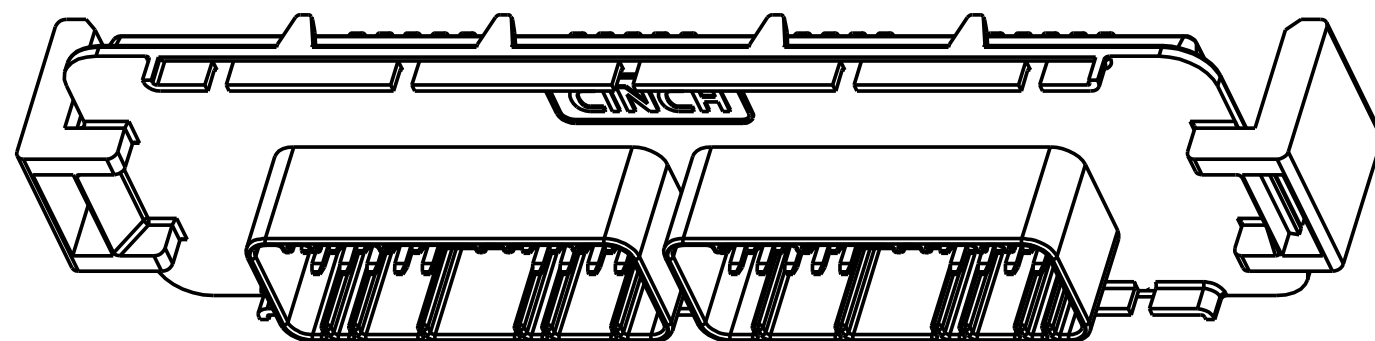


SECTION A-A

PLASTIC INSULATOR



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



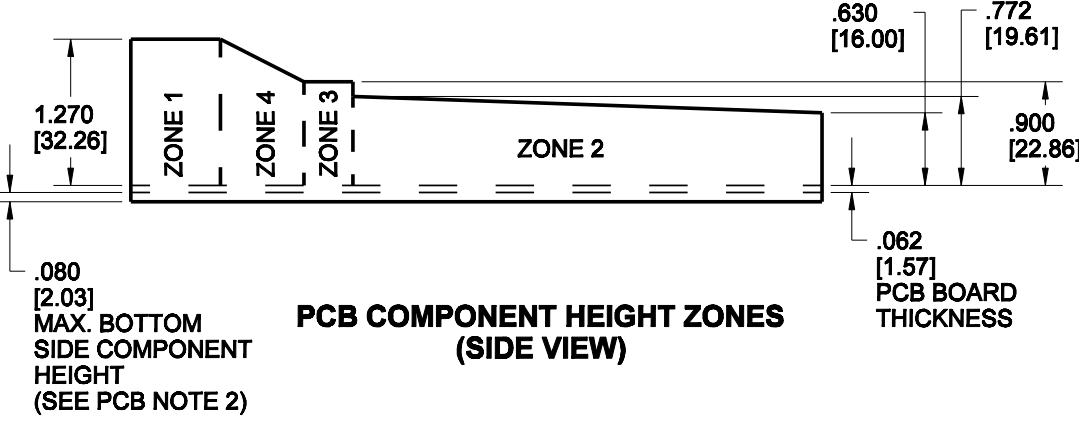
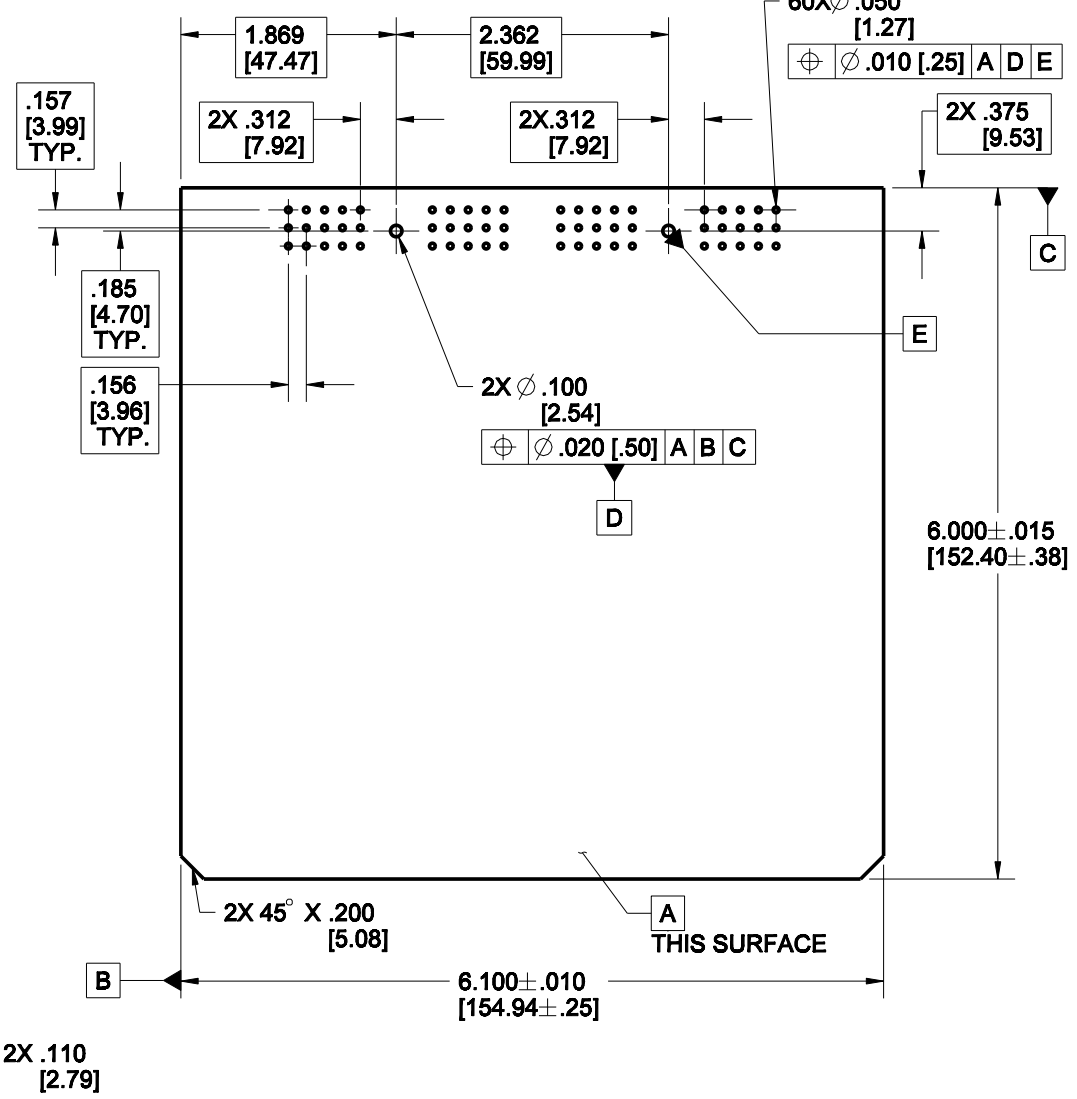
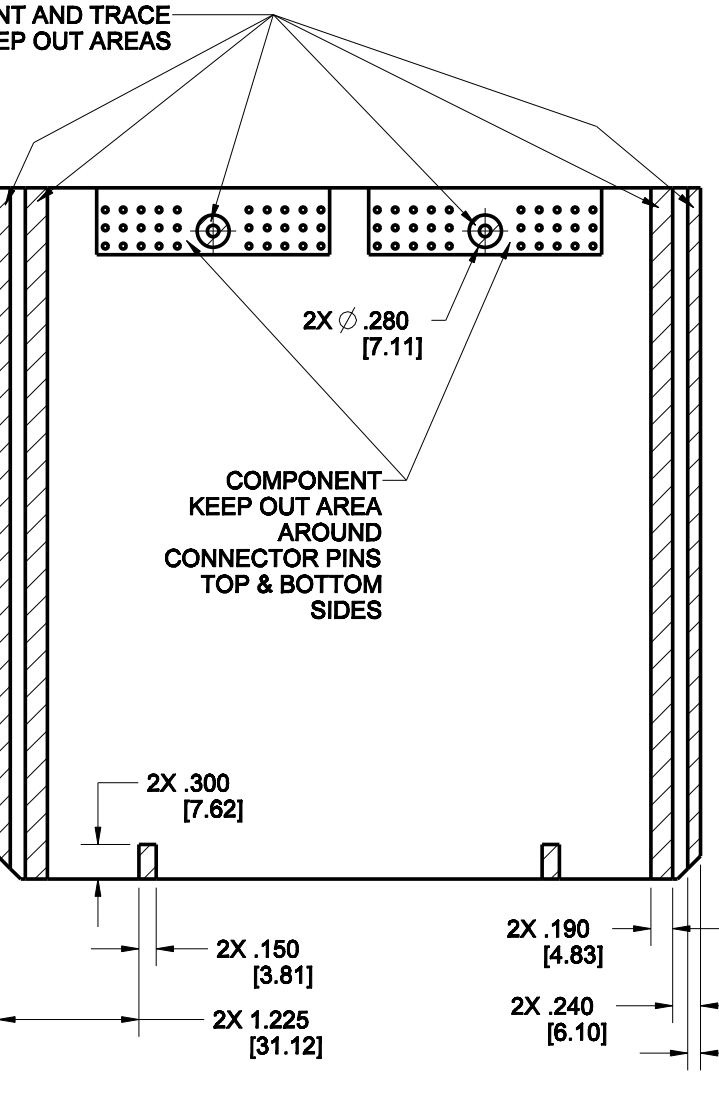
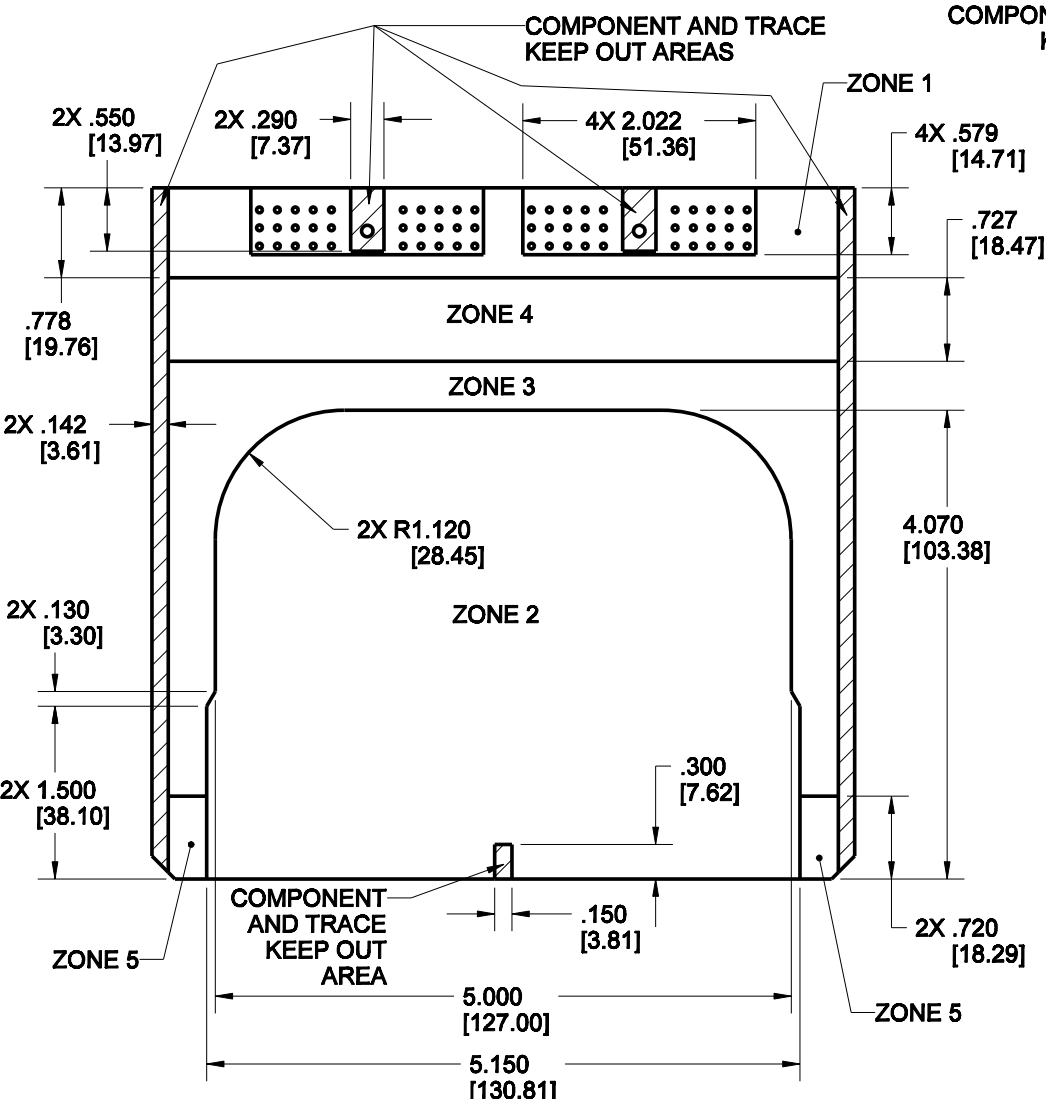
UNITS		ENGLISH		Cinch 1700 FINLEY RD LOMBARD, IL. 60148	
DO NOT SCALE DRAWING					
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES				TITLE	
FILLET/RADI .02 MAX		TOLERANCES X ± .1 XX ± .01 XXX ± .005 ANGULAR ± .5°		60-WAY HEADERS LE MODICE	
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH				PRO/E DRAWING	
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				5810160005_HEADER	
				CAGE IDENT NO.	SIZE
				71785	B
				SCALE	1:1
				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	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.					

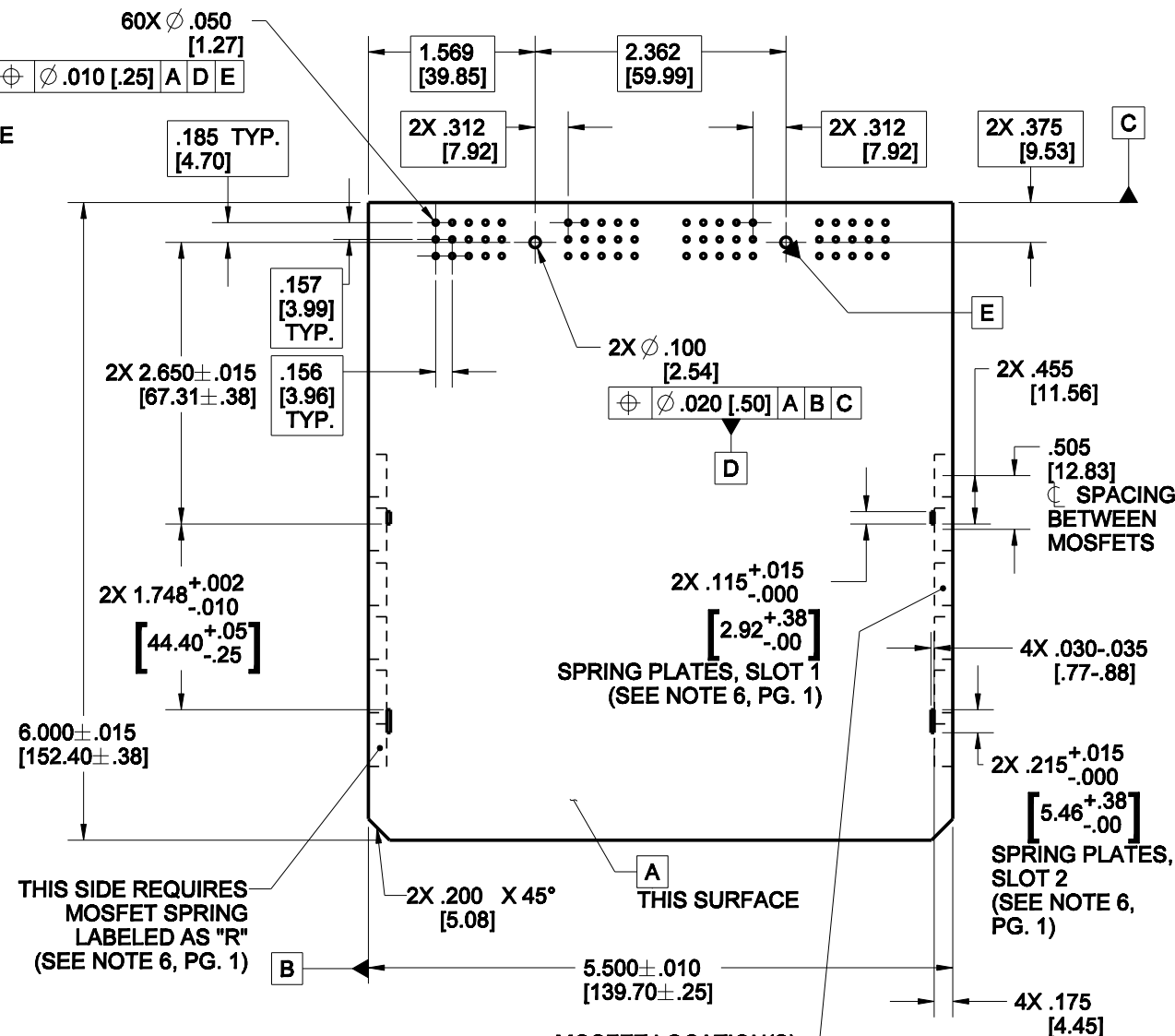
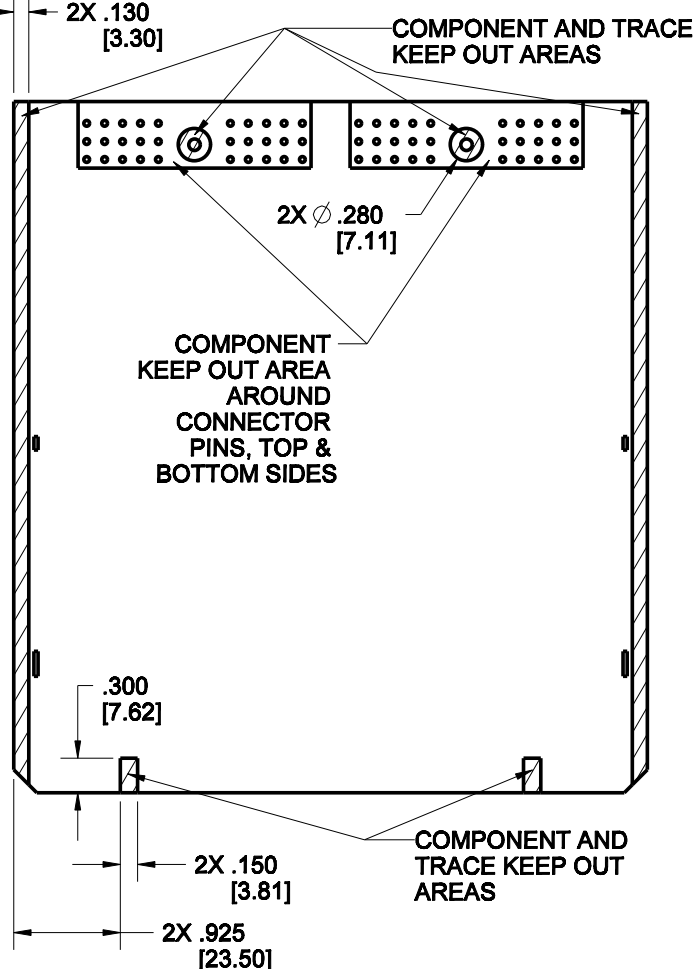
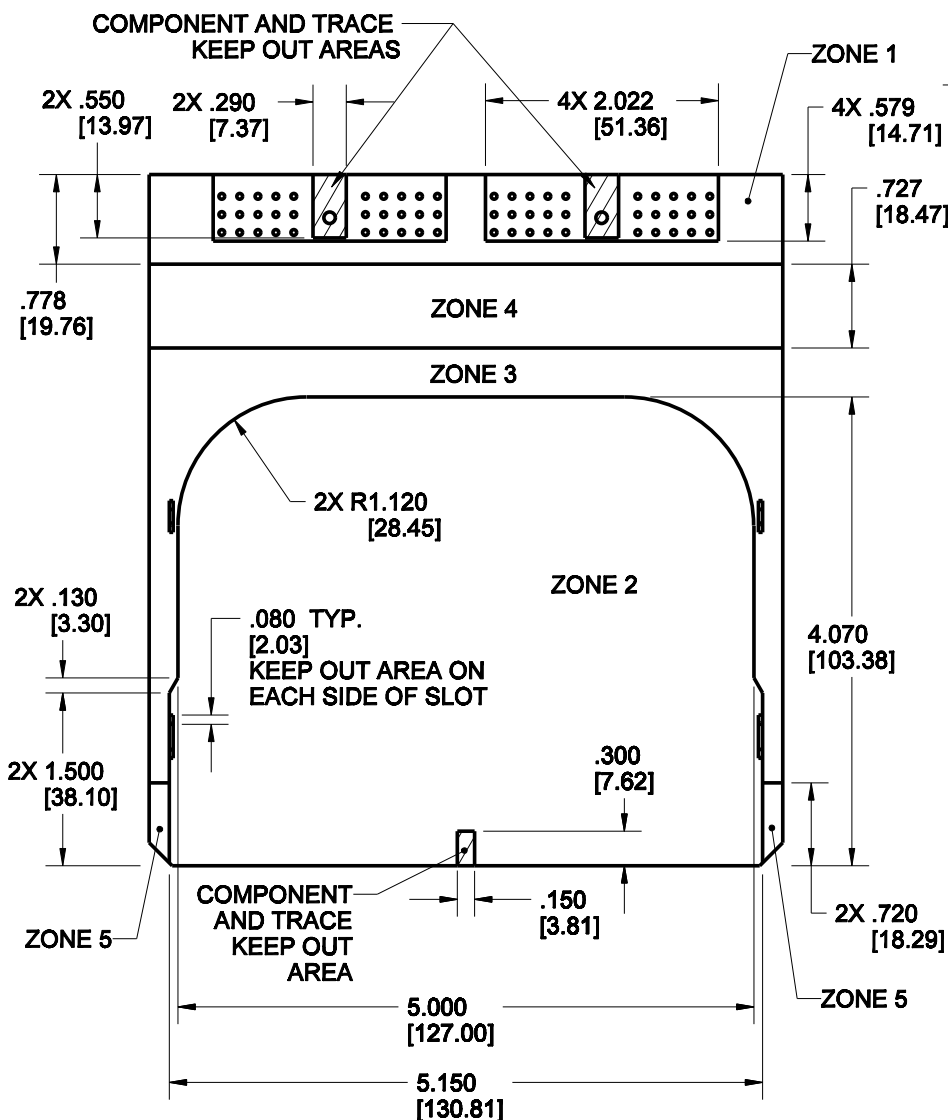
UNITS ENGLISH		Cinch		1700 FINLEY RD LOMBARD, IL. 60148		
DO NOT SCALE DRAWING						
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		TITLE 60-WAY HEADERS LE MODICE				
FILLET/RADI .02 MAX		TOLERANCES X ± .1 .00X ± .01 .000X ± .005 ANGULAR ± .5°				
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH		PRO/E DRAWING				
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		CAGE IDENT NO. 71785	SIZE B	SCALE 3:5	SHEET 3 OF 6	

PCB LAY-OUT WITH TWO HEAT SINKS

PCB TOP SIDE GENERAL ZONING & KEEP OUT AREAS

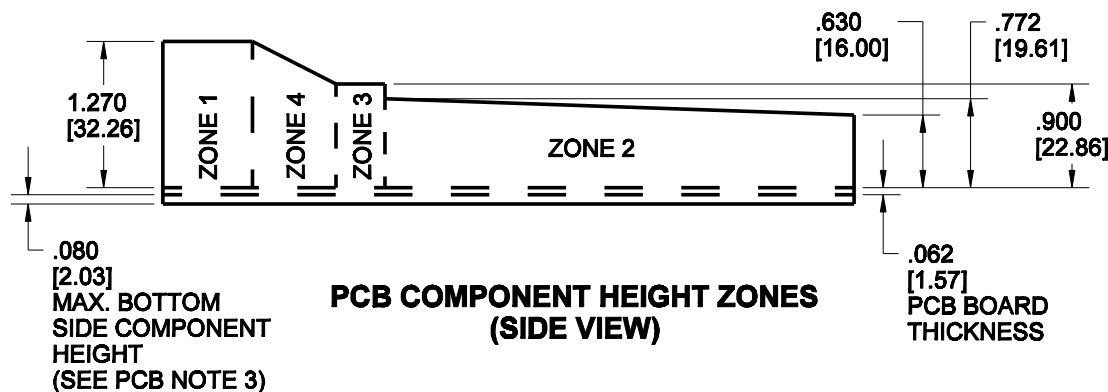
PCB BOTTOM SIDE GENERAL ZONING & KEEP OUT AREAS

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:					
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.					

PCB COMPONENT HEIGHT ZONES (SIDE VIEW)



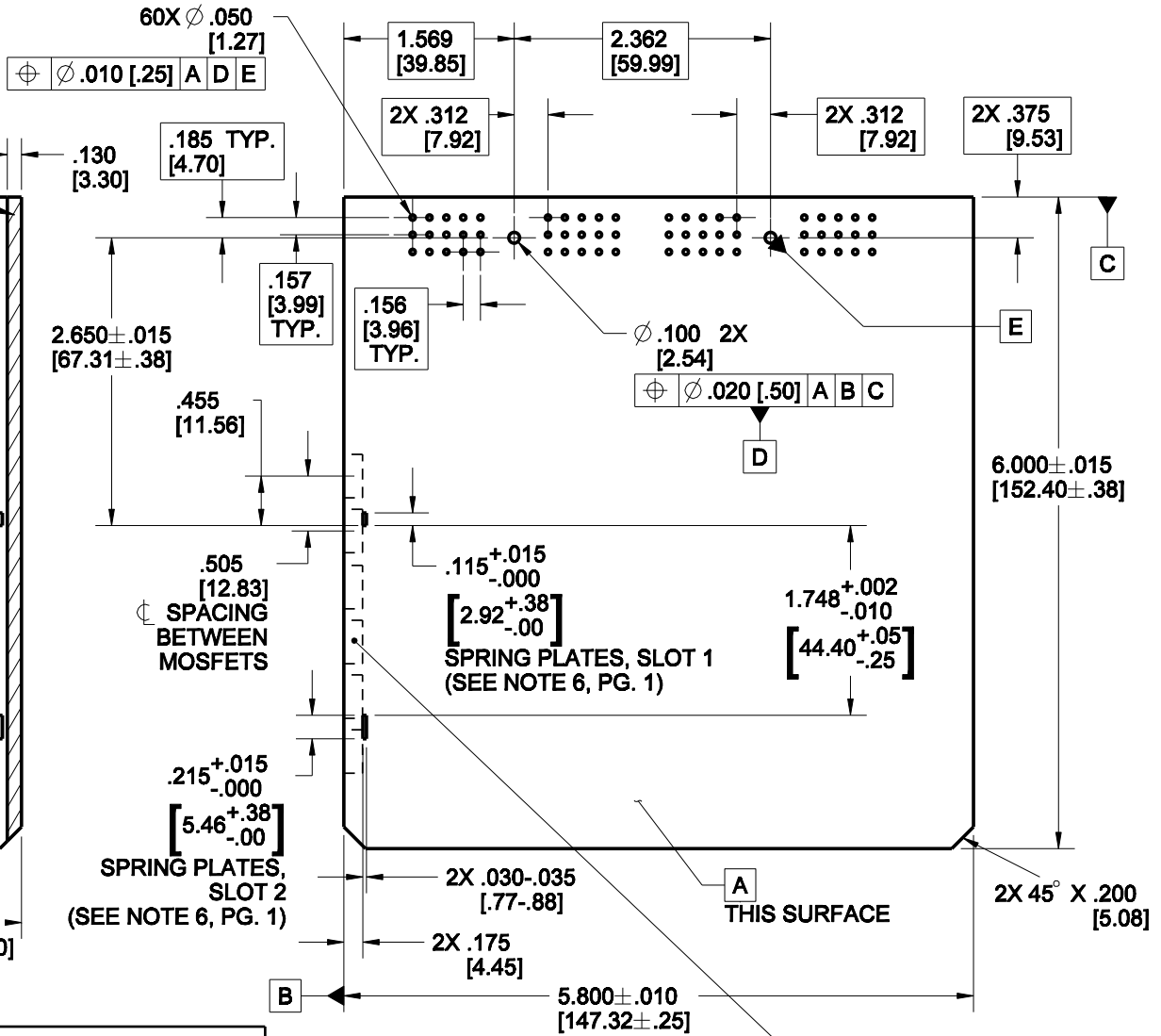
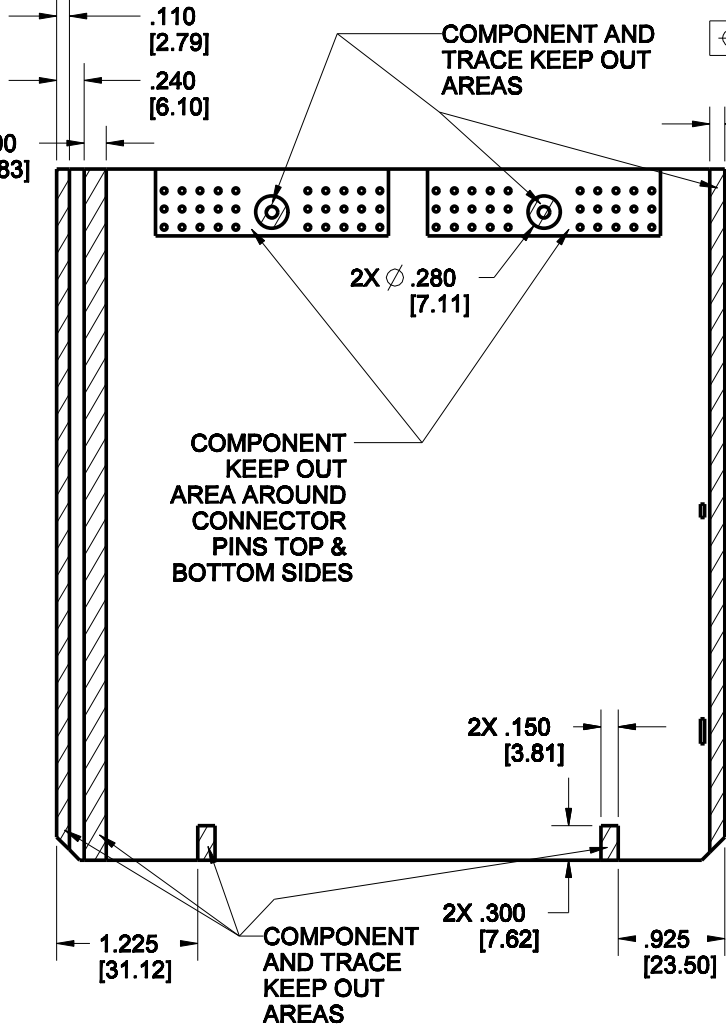
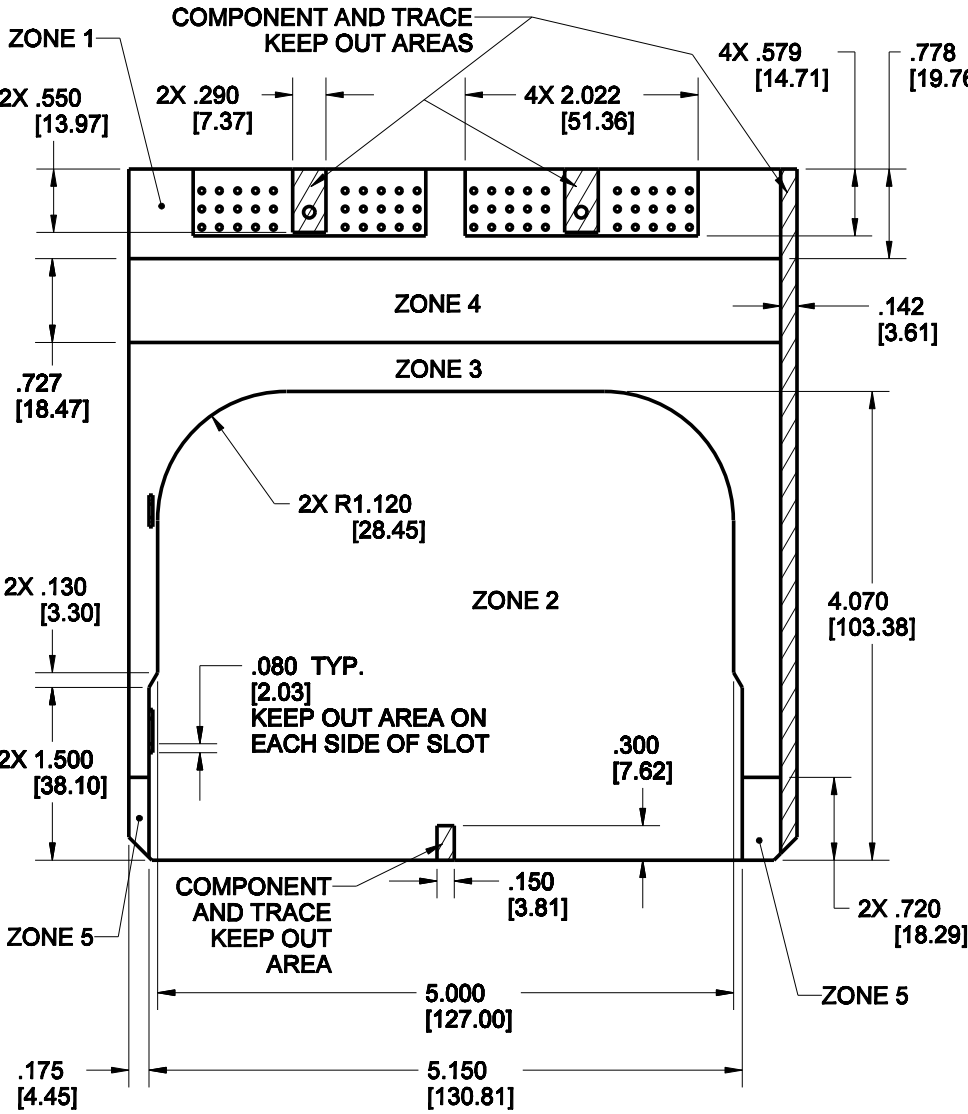
UNITS		ENGLISH		Cinch		1700 FINLEY RD LOMBARD, IL. 60148		
DO NOT SCALE DRAWING								
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES				TITLE				
Fillet/Radii .02 MAX				60-WAY HEADERS LE MODICE				
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH				PRO/E DRAWING				
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				5810160005_HEADER		581 01 60 005S		C
				CAGE IDENT NO.	SIZE	SCALE		
71785		B	3:5	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



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)

PCB COMPONENT HEIGHT ZONES (SIDE VIEW)

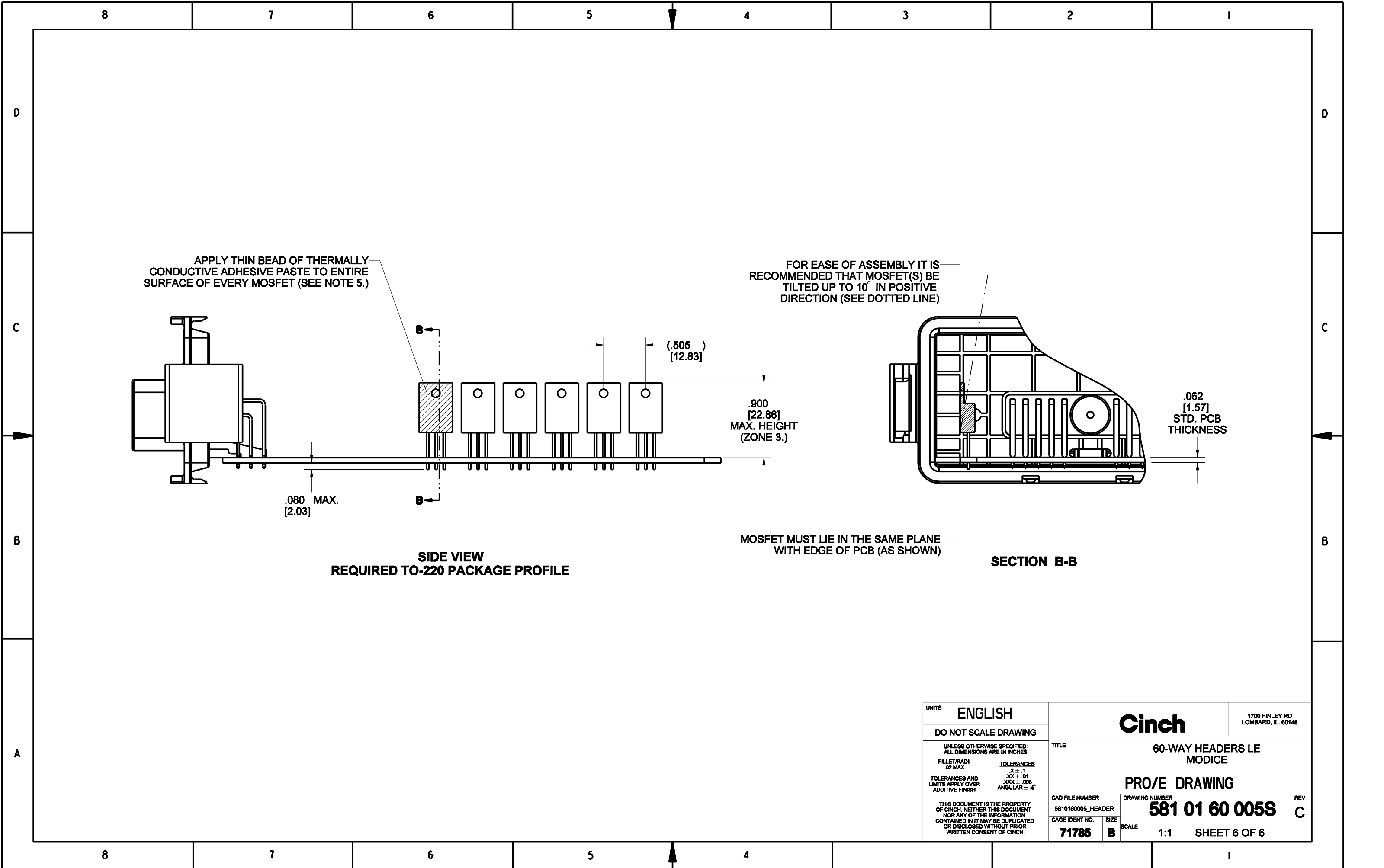
PCB COMPONENTS HEIGHT LIMIT

	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
MAX. HEIGHT FOR COMPONENTS (ABOVE PCB)	1.270"	SEE PCB NOTE 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/RADII .02 MAX				TOLERANCES X ± .1 .XX ± .01 .XXX ± .005 ANGULAR ± .5°					
TOLERANCES AND LIMITS APPLY OVER ADDITIVE FINISH				60-WAY HEADERS LE MODICE					
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				CAD FILE NUMBER		DRAWING NUMBER		REV	
				5810160005_HEADER		581 01 60 005S		C	
CAGE IDENT NO.		SIZE		SCALE		SHEET 5 OF 6			
71785		B		3:5					



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