

COLE-HERSEE CO.
EX 1938Z

Technical drawing of a mechanical part, likely a bracket or plate, showing dimensions in millimeters (mm). The drawing includes a central rectangular section with two circular features (possibly holes or mounting points) and a horizontal flange on the right side. Dimensions are indicated by arrows and text:

- Overall width: 111.12 REF.
- Overall height: 88.90 REF.
- Distance from top edge to center of upper circular feature: 44.45
- Distance from bottom edge to center of lower circular feature: 44.45
- Distance from left edge to center of upper circular feature: 50.80 REF.
- Distance from left edge to center of lower circular feature: 50.80 REF.
- Distance from center of upper circular feature to center of lower circular feature: 7.13 TYP.

①
FENCOL SEAL*30
SHOWN SHADED

7.13
TYP.

HEX NUT, 1/4-20 UNC
LOCKWASHER

84.91
REF.

INPUT | OUTPUT

 **COLE HERSEE Co.**
20 OLD COLONY AVE., SO. BOSTON, MA., USA, 02127

**SCHOTTKY
MEDICAL COMPARTMENT
ISOLATOR GUARD**

**MODEL NO. 48051
NEGATIVE GROUND**

78.56
REF.

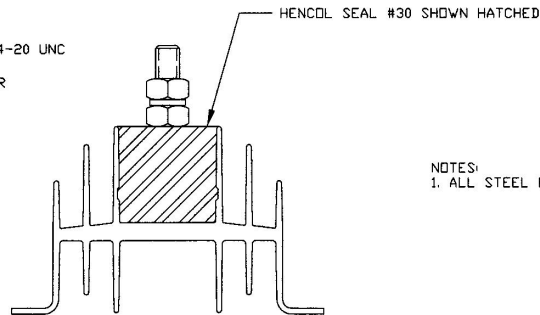
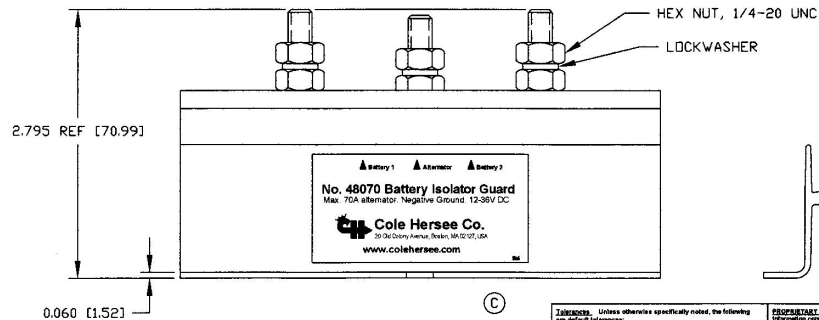
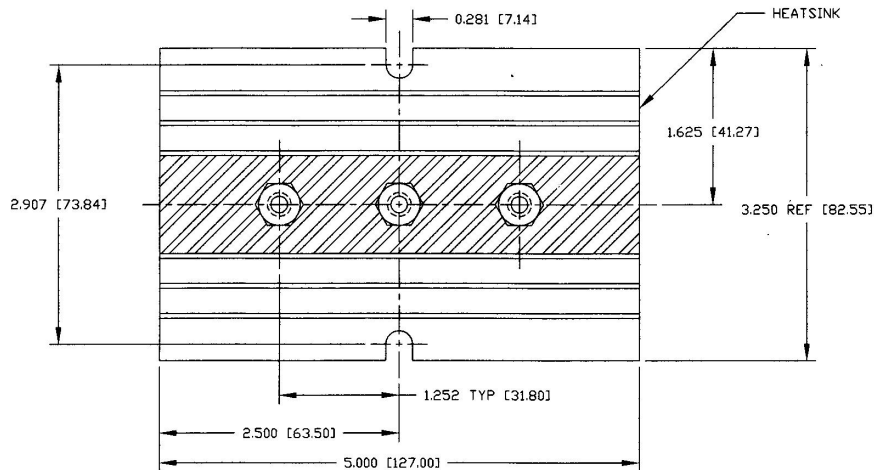
NOTE
1. ALL STEEL PARTS PLATED

DO NOT SCALE

LET.	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPR'D.	SCALE	DATE DRAWN
									DPS	RJA		1:1	7-27-81
								FINISH	 Cole Hersee Co. 20 OLD COLONY AVENUE, SOUTH BOSTON, MA. U.S.A. 02127				DATE BLUEPRINT
				B	ECN 25623	8/17/94	IF						
				A	REVISED NOTE	4/30/84	ups	TOLERANCES	 SCHOTTKY ISOLATOR GUARD 75 AMPS				48051
					15mm	3/1/82	ups	DECIMAL $\pm .010$ METRIC $\pm .25$					

METRIC

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NOTES:
1. ALL STEEL PARTS PLATED

Revision Control Record

Rev.	Description of Change	ECN No.	Date
B	NEW LABEL	01273	5/16/01
C	BATTERY 2 WAS BATTERY 1	03626	11/18/03

Tolerances. Unless otherwise specifically noted, the following are default tolerances:
 + 2 place Decimal Dimensions $\pm .02"$
 + 3 place Decimal Dimensions $\pm .005"$
 + Angular Dimensions ± 1.0 Deg
 + Holes: Refer to equivalent English Dimensional Tolerance
 + ** NOTE: All tolerances are Non-Cumulative, unless otherwise specifically noted.

Dimensional Units. All dimensions are expressed in inches except those shown in brackets (xxx) are expressed in millimeters.

DEF - as per Definition, D - Non-Tolerance Reference Dimension, shown for identification purposes only.

PROPRIETARY INFORMATION. This Engineering Drawing, and the information contained herein, is proprietary to Cole Hersee Company and may not be disclosed, re-produced, or in any other way transferred or communicated to any other party without the express written consent of an authorized representative of Cole Hersee Company.

Approval Control. It is the responsibility of the individual using / reviewing this drawing to ensure that the latest design revision (see agrees with the revision level of the Controlled Document (Master Drawing). This is a NON-CONTROLLED DOCUMENT unless otherwise specifically noted.

DO NOT SCALE. Dimensional matches may occur during printing / reproduction.

Basic Characteristics.
 (X) Critical Characteristic, relating to Safety and/or Regulatory Compliance
 (Z) Significant Characteristic relating to Process Control (SPC)
 (MC) Key Characteristic relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.

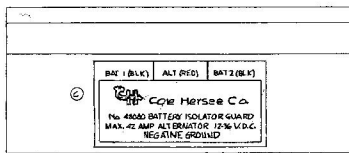
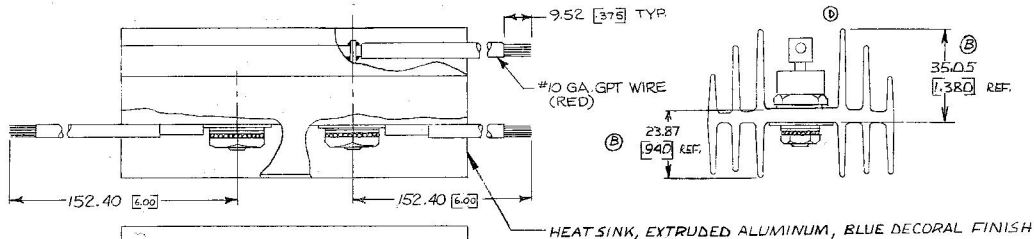
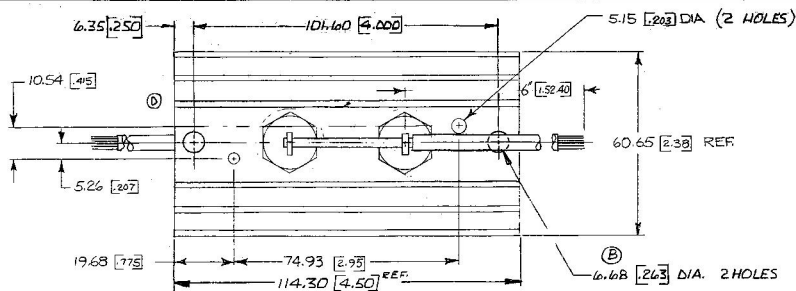
Used On or Ref: Scale: 1:1 Drawn By: DPS Date: 1/27/83 Responsible Engineer: N/A Pg. 1 of 1

Cole Hersee Co.
 20 Old Colony Ave., South Boston, MA, 02127
 Phone: 617-368-5100 Web: www.colehersee.com

Description: 70 AMP BATTERY ISOLATOR GUARD

Drawing / Part No.: 48070

Current Rev.: C



DIMENSIONS: MILLIMETERS INCHES

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42 AMP @ 12-36 VDC

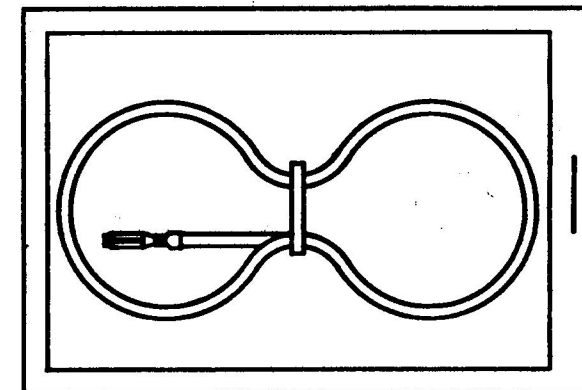
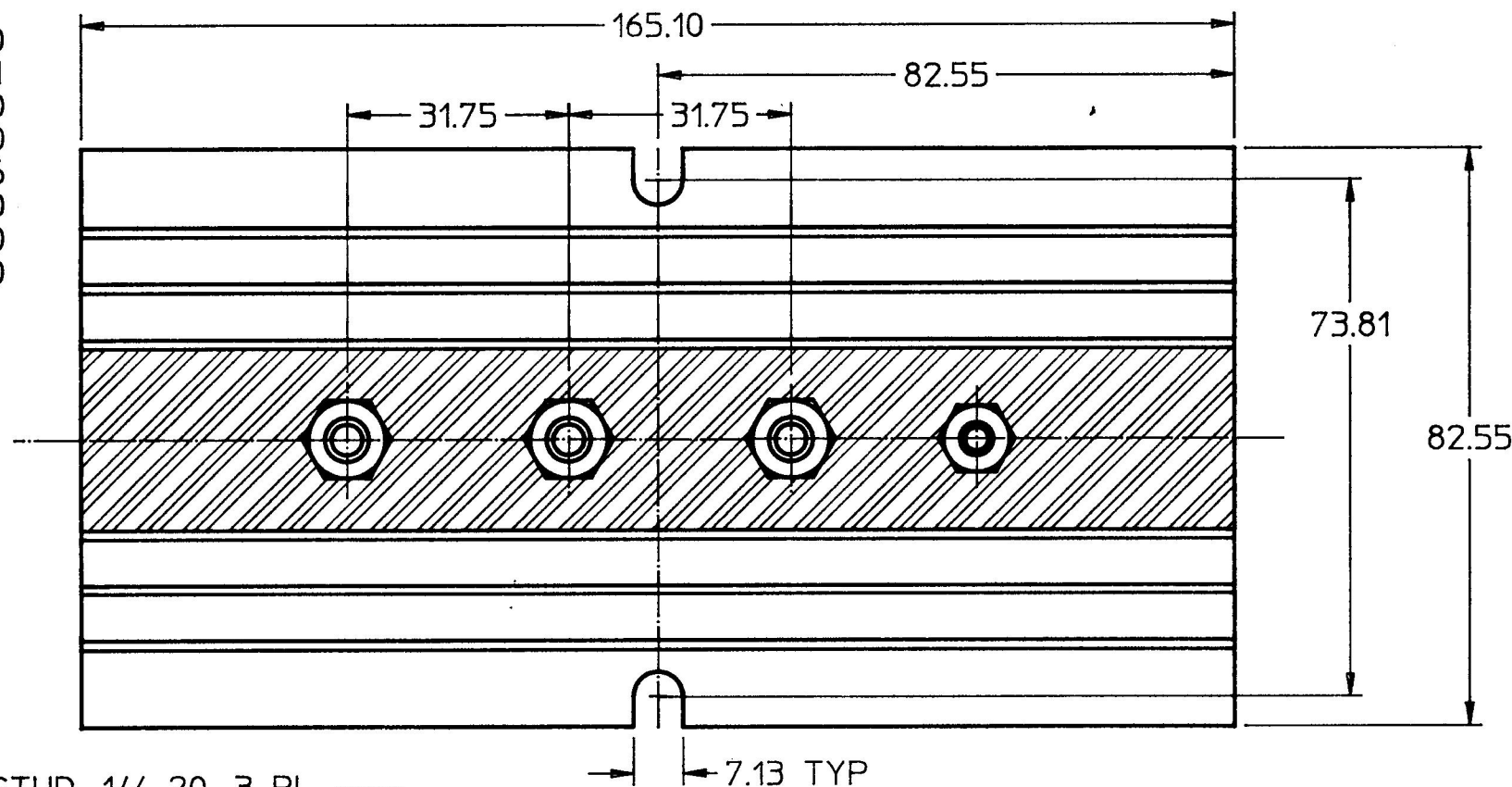
DO NOT SCALE

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								#	CS.	1/16"	1/1		9-19-75
				D	ECN 02133	3/2/82	ML	FINISH	COLE-HERSEE COMPANY				DATE BLUEPRINT
				C	REV LABEL ECN 12760	02-83	P2	#	ROSTON, MASS. 02871, U.S.A.				
				B	REV 21163	10-30-82	CE	TOLERANCES	BATTERY ISOLATOR GUARD				
				A	REDRAWN	11-20-82	CE	FRACTIONAL SIZES DECIMAL ± .01	42 AMP				48080

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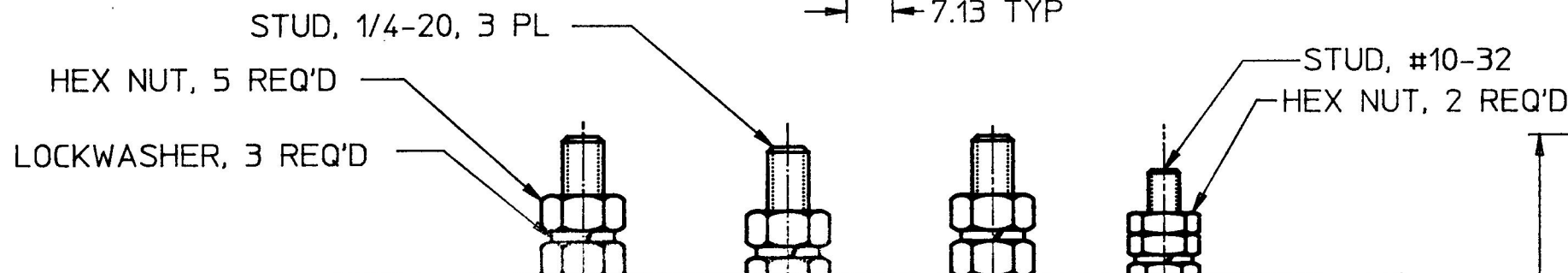
48092

MM	IN
1.52	0.060
7.13	0.281
31.75	1.250
72.14	2.840
73.81	2.906
82.55	3.250
165.10	6.500
1828.80	72.000
1 mm ²	16 ga



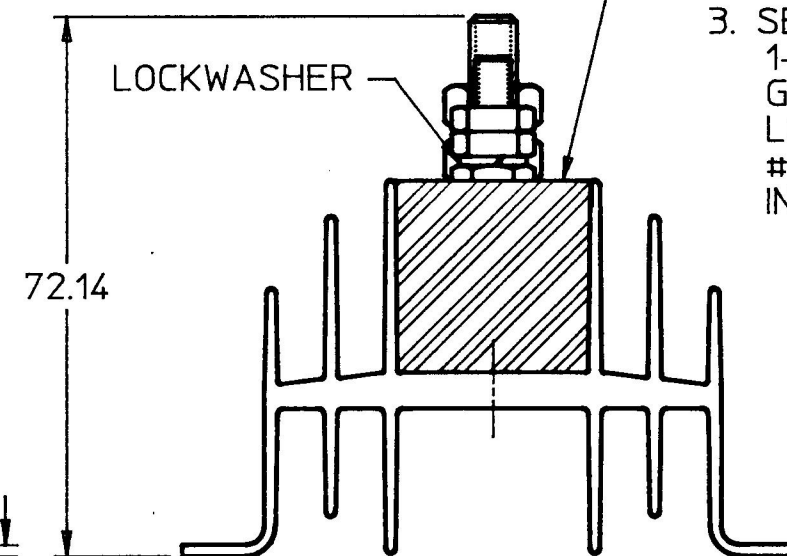
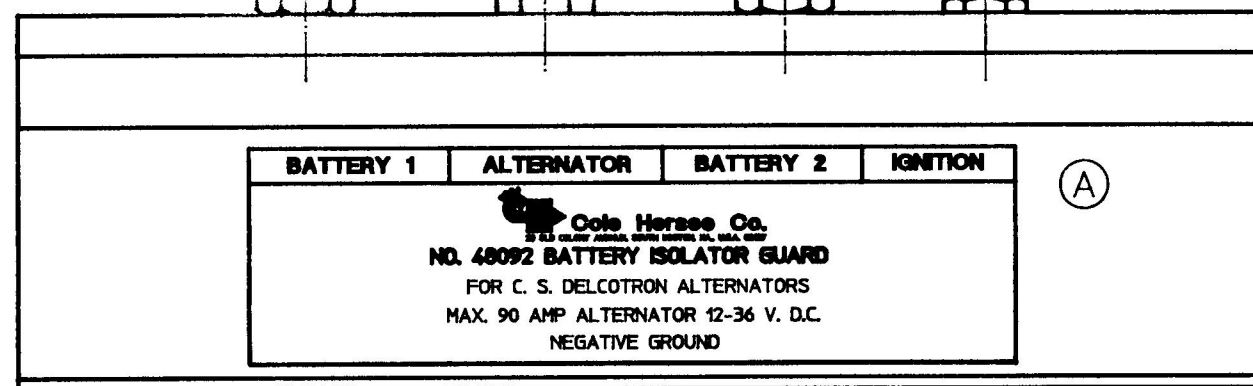
BAGGED PARTS

SCALE 1:2
NOTE 3
SHIPPED LOOSE



HENCOL SEAL #30
SHOWN HATCHED

NOTES:
1. ALL STEEL PARTS PLATED
2. ALL DIM'S REF. ONLY
3. SEALED POLY BAG WITH,
1-WIRE LEAD, 1.0mm²,
GPT, YELLOW, 1828.80
LONG WITH PACKARD TERM.
12015824 ATTACHED AND
INFORMATION SHEET.



HEATSINK, BLUE

1.52

METRIC

DO NOT SCALE
CAD GENERATED

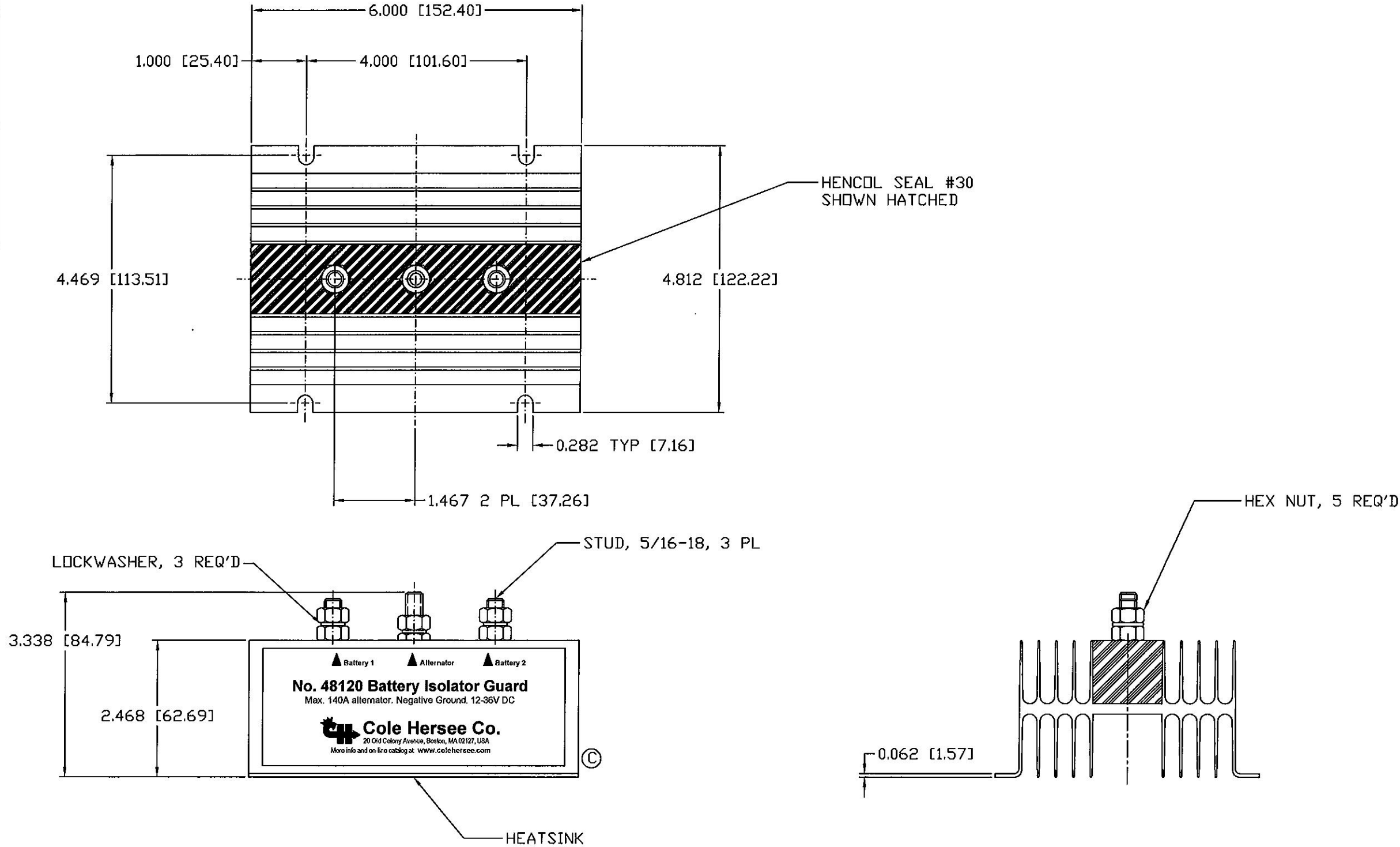
LET.	WAS	DATE	BY	LET.	WAS	DATE	BY	MATERIAL	DRAWN	CHK	APVD	SCALE	EX22440	DATE DRAWN
									DPS			1:1		9/30/88
								FINISH						DATE BLUEPRINTED
				A	ECN 24012	7/27/89	JP	TOLERANCES						
					ISSUED			DECIMAL ±						
								ANGLE ±						

Cole Hersee Co.
30 OLD COLONY AVENUE SOUTH BOSTON MA, U.S.A. 02127

BATTERY ISOLATOR GUARD
FOR C S DELTRON ALTERATOR

48092

Revision Control Record			
Rev.	Description of Change	ECN No.	Date
C	NEW LABEL	01274	05/15/01
D	CHANGED 120 TO 140 AMP	10236	06/02/10



NOTES:
 1. ALL STEEL PARTS PLATED
 2. ALL DIMENSIONS REFERENCE ONLY

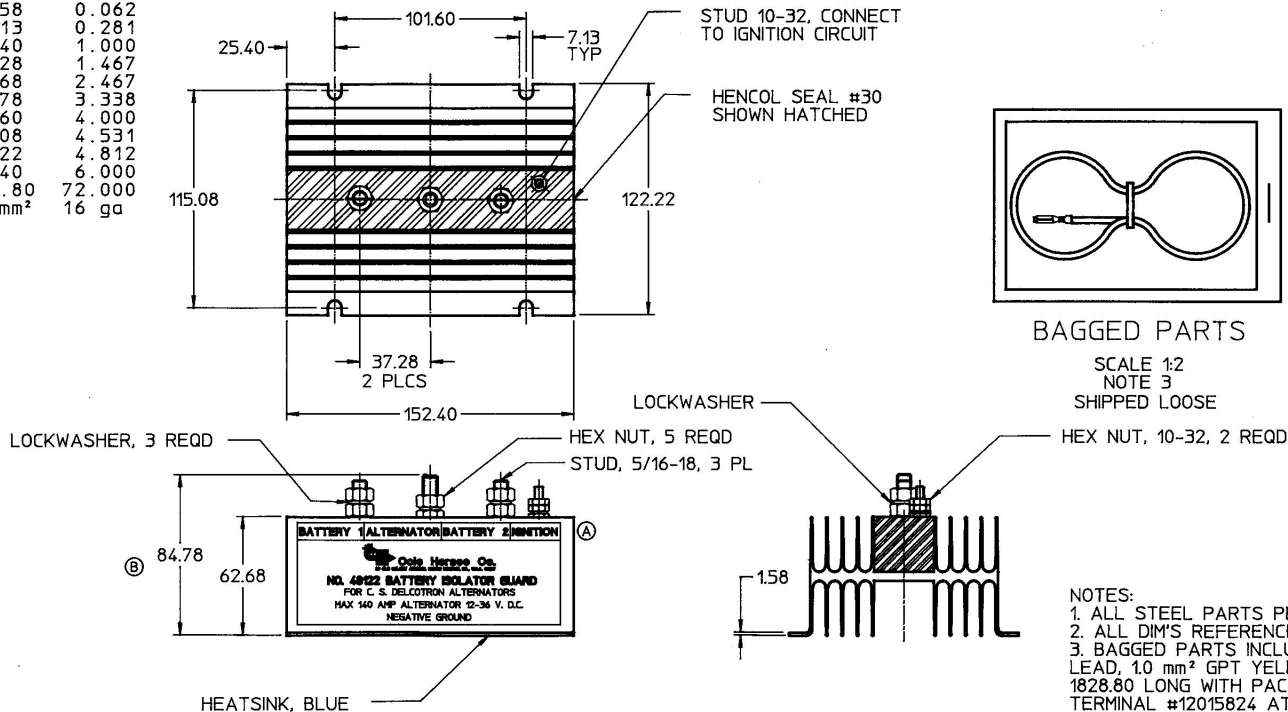
Tolerances Unless otherwise specifically noted, the following are default tolerances: * 2-place Decimal Dimensions +/- .02" * 3-place Decimal Dimensions +/- .005" * Angular Dimensions +/- 1.0 Deg. * Metric: Refer to equivalent English Dimension Tolerance >>> NOTE: All tolerances are Non-Cumulative. <<<	
Dimensional Units All dimensions are expressed in inches except those shown in brackets (xxx) are expressed in millimeters	
"REF." or an Asterisk (*) = Non-Toleranced Reference Dimension, shown for clarification purposes only.	
Used On or Ref.:	Scale: 1:2

PROPRIETARY INFORMATION This Engineering Drawing, and the information contained herein, is proprietary to Cole Hersee Company and may not be disclosed, re-produced, or in any other way transferred or communicated to any other party without the express written consent of an authorized representative of Cole Hersee Company.	
DESIGN CONTROL It is the responsibility of the individual using / referencing this drawing to assure that the noted design revision level agrees with the revision level of the Controlled Document (Master Drawing). This is a NON-CONTROLLED DOCUMENT unless otherwise specifically noted.	
DO NOT SCALE - Dimensional variation may occur during printing / reproduction.	
Drawn By: DPS	Date Drawn: 1/28/83

Key for Special Characteristics: ◇◇ Critical Characteristic, relating to Safety and/or Regulatory Compliance X Significant Characteristic relating to Process Control (SPC) Ⓢ Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer	
(Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)	
Responsible Engineer: N/A	Pg. 1 of 1

Cole Hersee Co. 20 Old Colony Ave., South Boston, MA, 02127 Phn: 617-268-2100 Web: www.colehersee.com	
Description: 140 AMP BATTERY ISOLATOR GUARD	
Drawing / Part No.: 48120	Current Rev.: D

MM	IN
1.58	0.062
7.13	0.281
25.40	1.000
37.28	1.467
62.68	2.467
84.78	3.338
101.60	4.000
115.08	4.531
122.22	4.812
152.40	6.000
1828.80	72.000
1.0 mm ²	16 ga



- NOTES:
1. ALL STEEL PARTS PLATED
 2. ALL DIM'S REFERENCE ONLY
 3. BAGGED PARTS INCLUDE 1-WIRE LEAD, 1.0 mm² GPT YELLOW, 1828.80 LONG WITH PACKARD TERMINAL #12015824 ATTACHED AND INFORMATION SHEET.

Confidential Property of Cole Hersee

METRIC

DO NOT SCALE

LET.	WAS	DATE	BY	LET.	WAS	DATE	BY	MATERIAL	DRAWN	CHK	APVD	SCALE	EX22439	EX22627	DATE DRAWN
									DPS	AK		1:2			10/5/88
				B	87.48	12/29/93	BL	FINISH							DATE BLUEPRINTED
				A	ECN 24092	7/22/89	JP	TOLERANCES DECIMAL & ANGLE &							
					ISSUED	2/2/89	AF								



Cole Hersee Co.

20 OLD COLONY AVENUE, BOSTON, MA, U.S.A. 02227

BATTERY ISOLATOR GUARD
FOR C S DELTRON ALTERNATOR

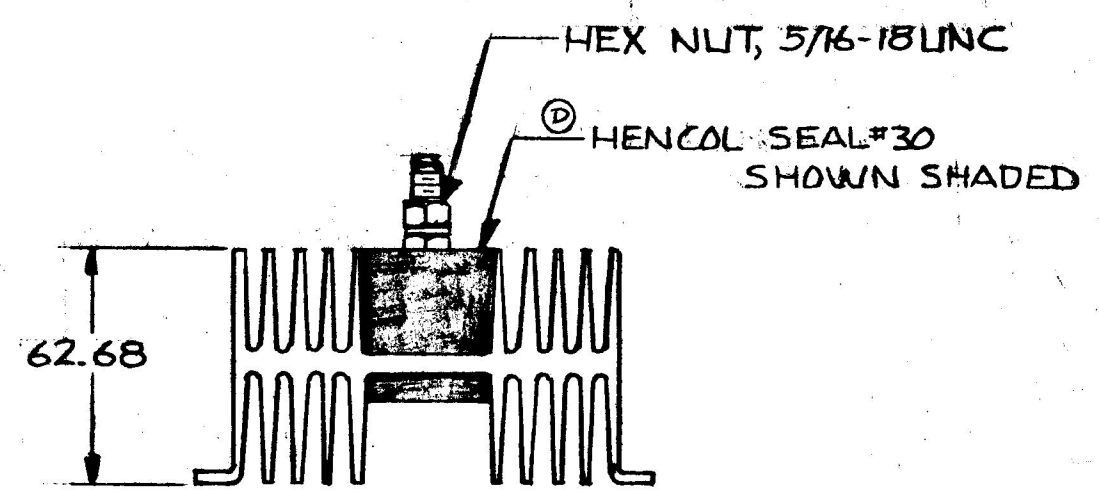
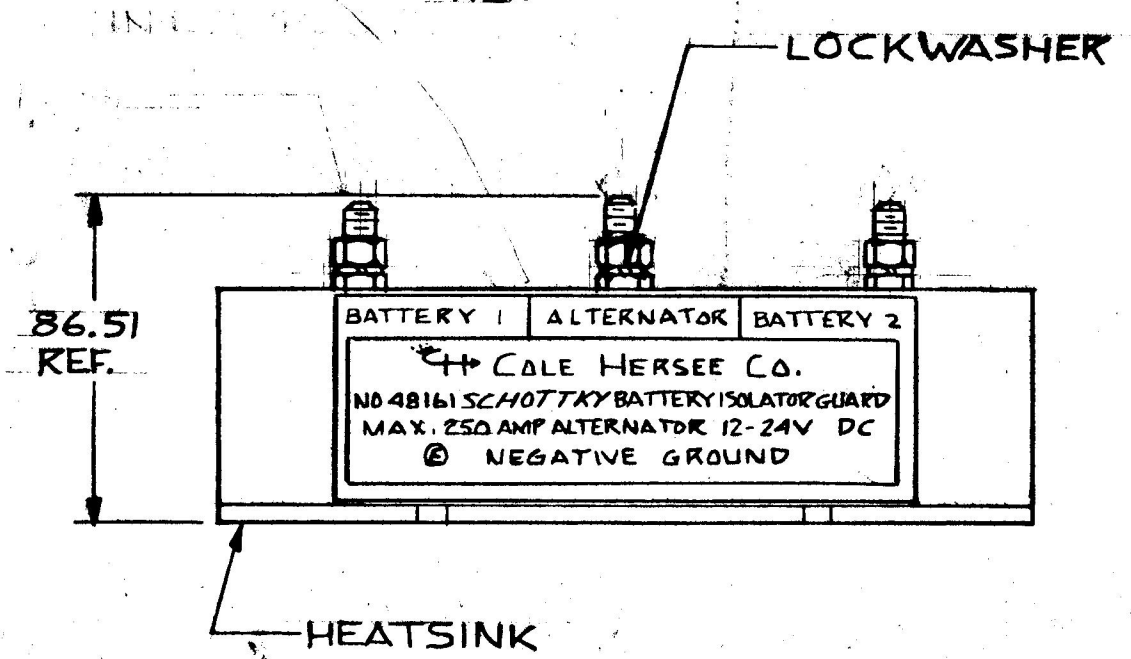
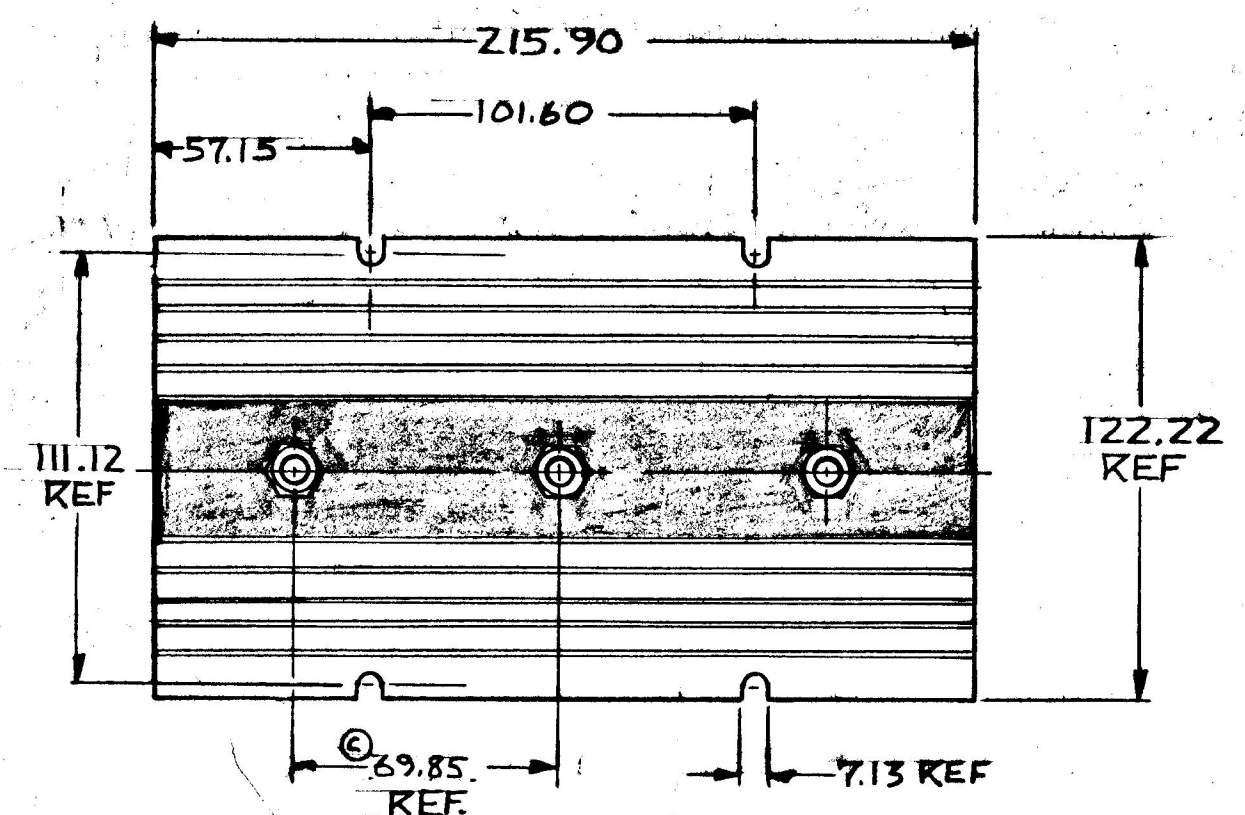
48122

MM 17
7.13 2.81
57.12 2.29
62.68 2.468
86.51 3.406
101.60 4.000
122.22 4.812
215.90 8.500
69.85 2.750
111.42 4.375

COLE-HERSEE CO.

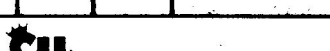
EX19679

48161

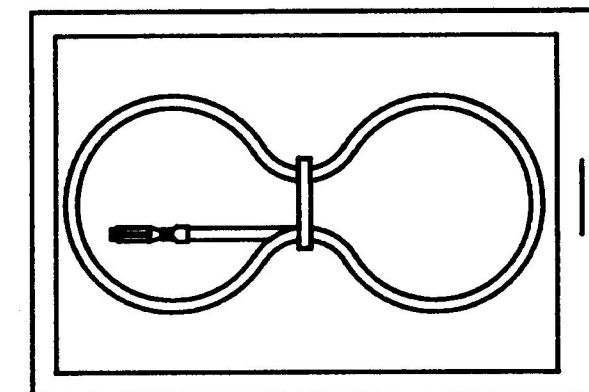
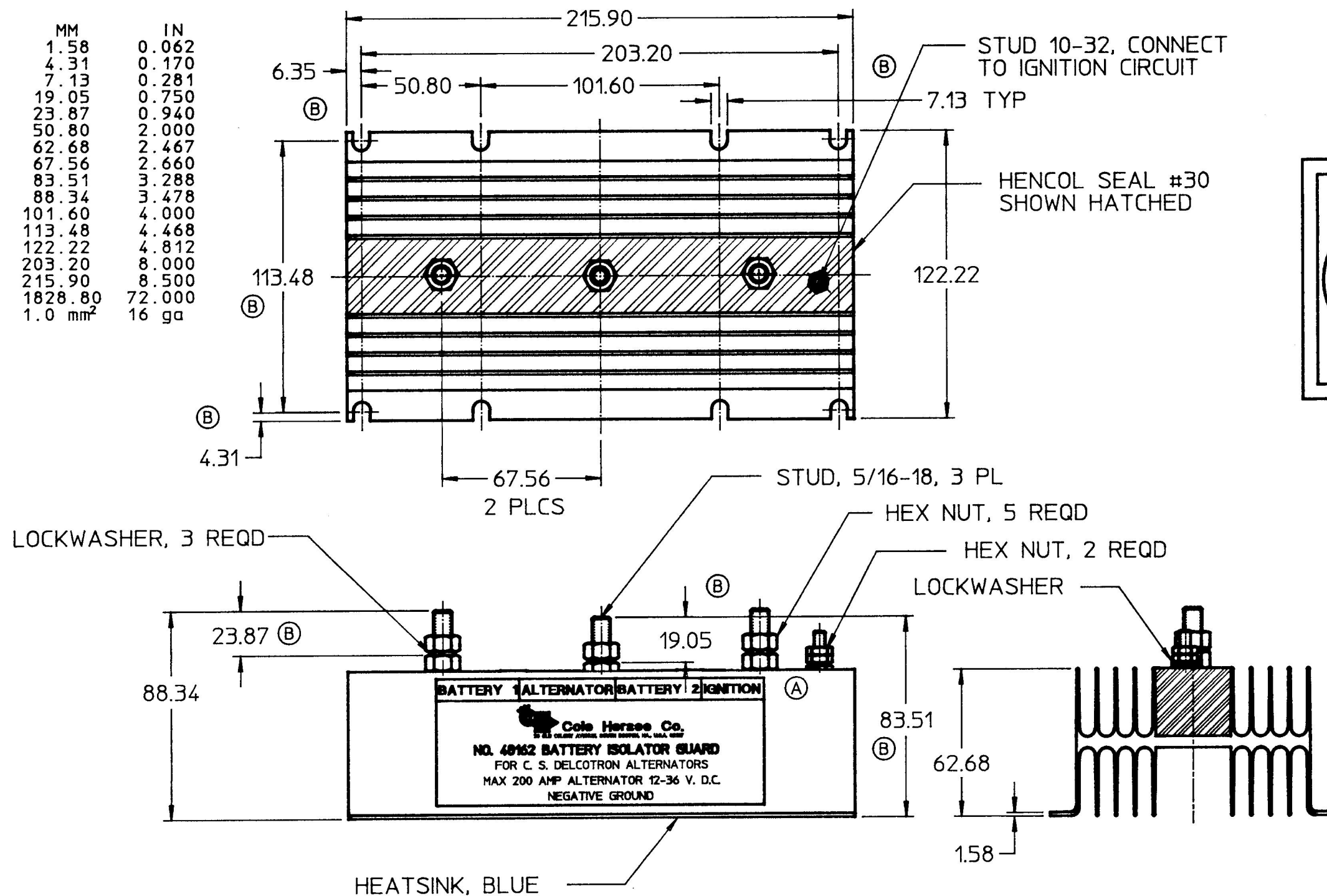


NOTE:
ALL STEEL PARTS PLATED

METRIC

DO NOT SCALE														
LET.	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPR'D.	SCALE	DATE DRAWN	
				E	ECN 23988	3-31-89	JK		PS	RA		1/2:1	8-21-81	
				D	REVISED NOTE	1/30/81	PS	FINISH	 					DATE BLUEPRINT
				C	34.92	9-22-82	PS							
					ISSUED	3-17-82	RJA	TOLERANCES	160 AMP SCHOTTKY BATTERY ISOLATOR GUARD					48161
				B	REVISED & REDRAWN	3-3-82	PS	DECIMAL ±.010 METRIC ±.25						

MM	IN
1.58	0.062
4.31	0.170
7.13	0.281
19.05	0.750
23.87	0.940
50.80	2.000
62.68	2.467
67.56	2.660
83.51	3.288
88.34	3.478
101.60	4.000
113.48	4.468
122.22	4.812
203.20	8.000
215.90	8.500
1828.80	72.000
1.0 mm ²	16 ga



BAGGED PARTS

SCALE 1:2
NOTE 3
(SHIPPED LOOSE)

NOTES:
1. ALL STEEL PARTS PLATED
2. ALL DIM'S REFERENCE ONLY
3. BAGGED PARTS INCLUDE 1-WIRE LEAD, 1.0 mm² GPT YELLOW, 1828.80 LONG WITH PACKARD TERMINAL #12015824 ATTACHED AND INFORMATION SHEET.

DO NOT SCALE
CAD GENERATED

METRIC

LET.	WAS	DATE	BY	LET.	WAS	DATE	BY	MATERIAL	DRAWN	CHK	APVD	SCALE	EX22440	DATE DRAWN
									DPS	OK		1:2		10/5/88
								FINISH						DATE BLUEPRINTED
				B	ECN 24800	3/20/91	RO							
				A	ECN 24012	7/27/89	JP							
					ISSUED			TOLERANCES DECIMAL ± ANGLE ±						

Cole Hersee Co.
BATTERY ISOLATOR GUARD
FOR C S DELTRON ALTERNATOR

48162