

5

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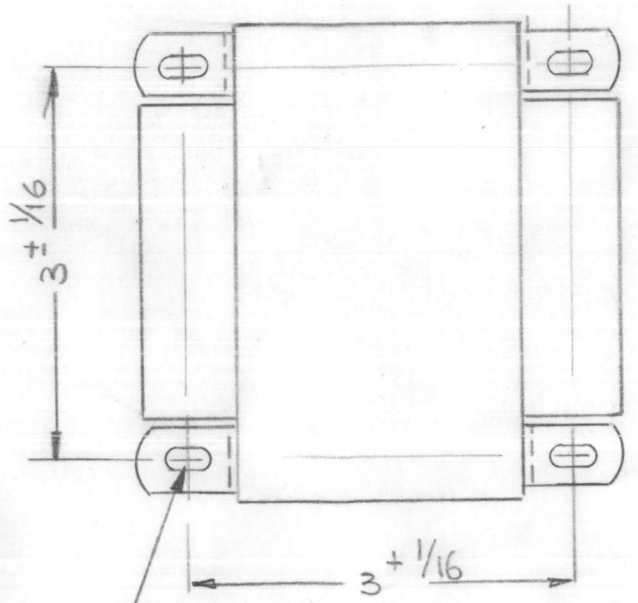
2

1

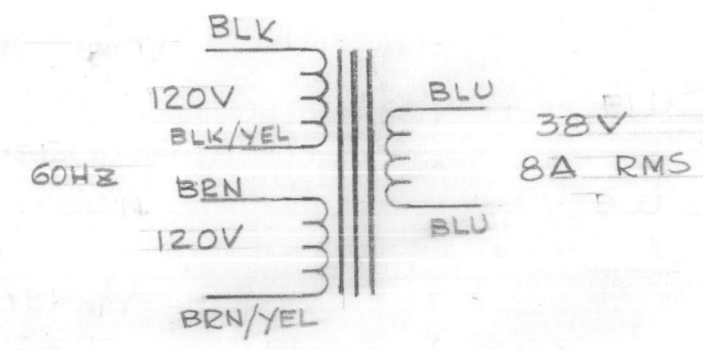
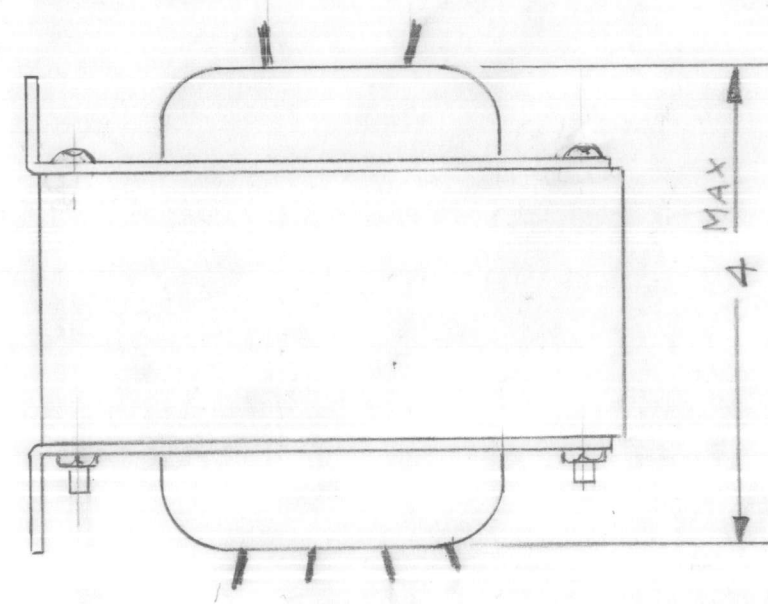
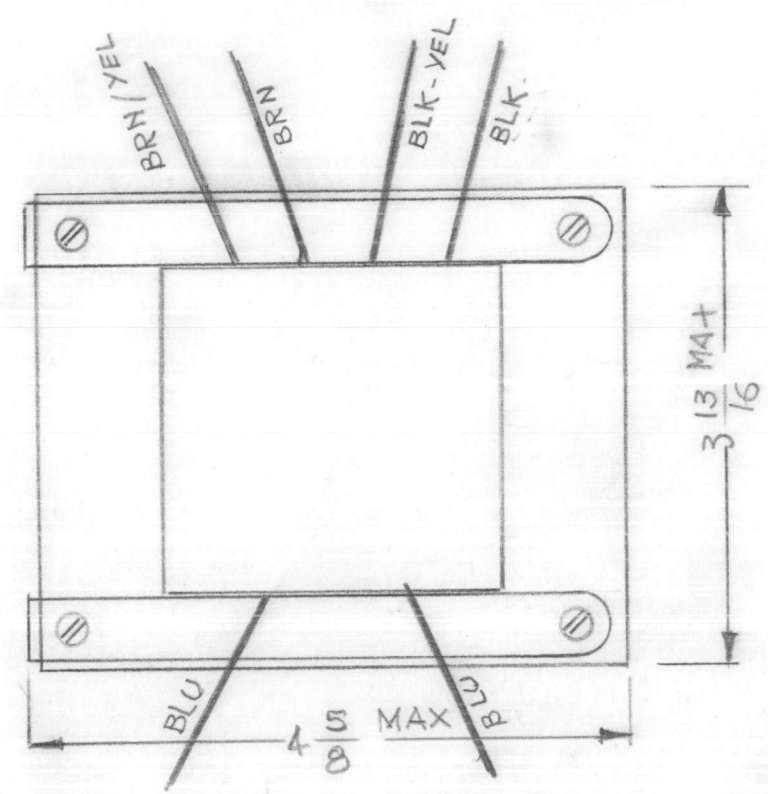
REVISIONS

E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	G.D.L.			Ø	ORIGINAL RELEASE FOR PROD.	5-31-90	

LEADS 12" LONG



13/64 x 5/16 SLOT
4 REQ'D



SCHEMATIC

MFG. BERKSHIRE TRANSFORMER
DWG. NO. BTC 10374

QTY / UNIT	STANDARD	MODEL USED ON	ASS'Y NO.
APPLICATION			
CODE			

NOTICE TO PERSONS RECEIVING THIS DRAWING
 THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	FRACTIONS 1/64 ANGLES 0° - 30'
MATERIAL	
FINISH	

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER, STEP DOWN				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 406	Ø	
SCALE	SHEET		OF	

FINAL APPROVAL	DATE
T.C.	4/3/89
MECH. DES.	DATE
T.C.	4/3/89
ELECT. DES.	DATE
CHECKED	DATE
DRAWN	DATE
G.D.L.	3-1-89

5

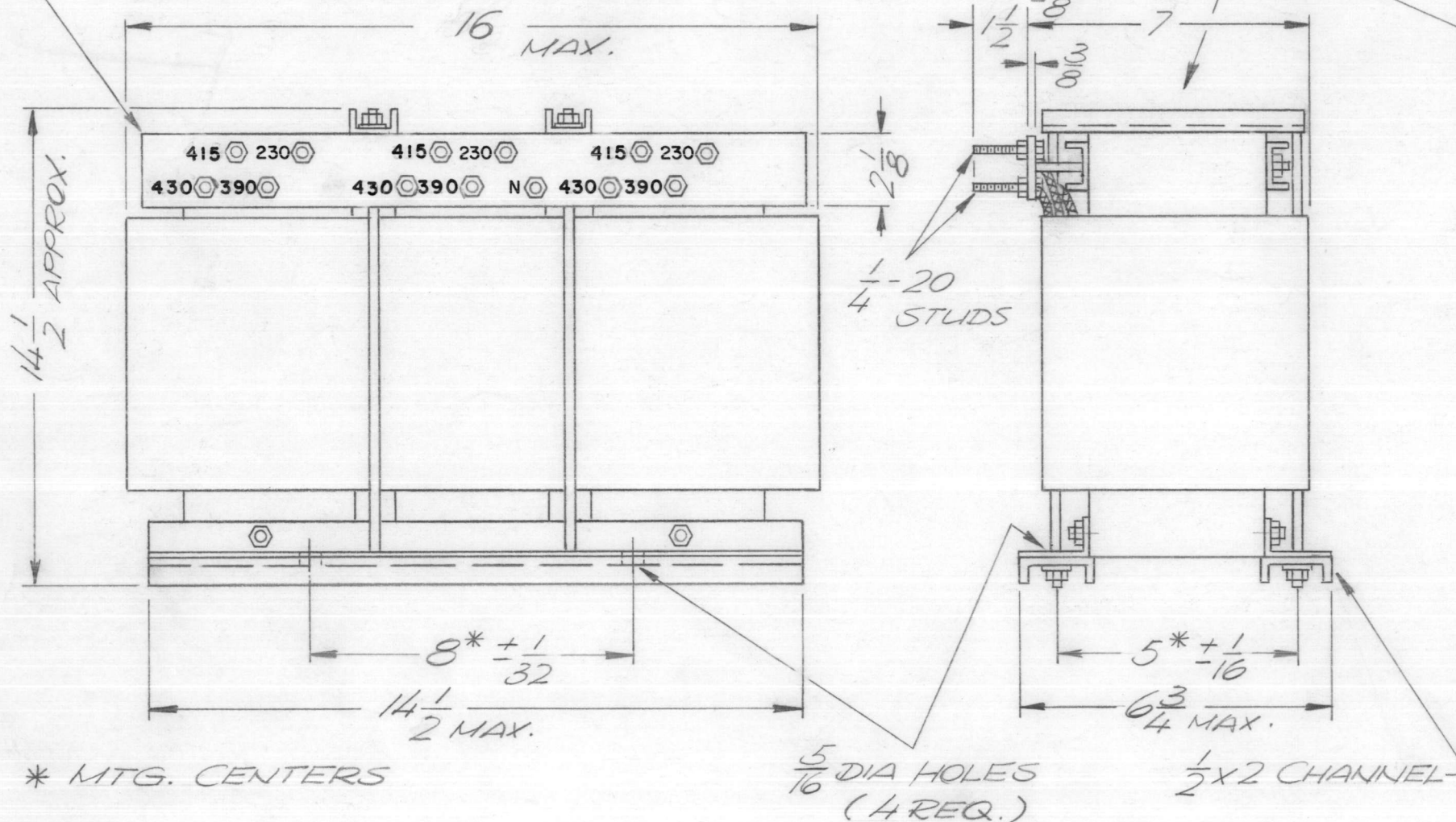
4

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1

TERMINAL BOARD
(BLK, W/WHITE LETTERING)



* MTG. CENTERS

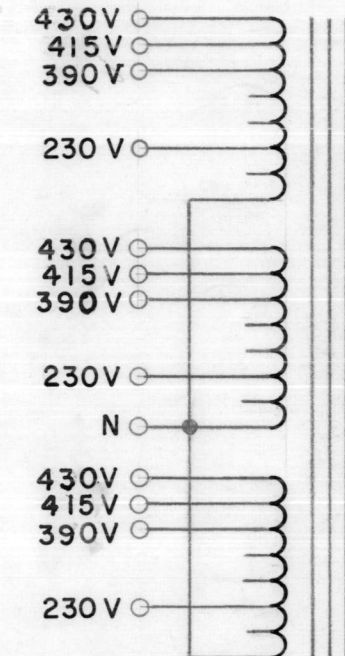
5/16 DIA HOLES
(4 REQ.)

1/2 X 2 CHANNEL

REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD APPD
	X1	REDRAWN + CHANGES	5/21/70		KLA	R-7
	Ø	ORIG RELEASE FOR PROD	6/1/70		CV	
	A	VOLTAGE TO TAPS 430, 415, 390 WAS 390, 380, & 370	7-26-77	21563	G.D.L.	U/B *

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK NEW YORK

TF 410



SCHEMATIC-TO BE STAMPED
ON XFMR, IN WHITE.

SPECIFICATIONS:

WINDING DATA:

1. INPUT: 430, 415, 390 VAC, 50/60 Hz, 3 PH.
2. OUTPUT VOLTAGE: 230 V AC, NEUTRAL.
3. OUTPUT CURRENT RATING: 70 AMP RMS.
4. BREAKDOWN TEST VOLTAGE 2000 VAC.
5. CASE - OPEN FRAME.
6. FINISH - S115 SMOOTH GREY ENAMEL EXCEPT TERMINAL BOARD & TERMINALS.
7. TERMINAL BOARD 3/8" THICK.

NOTE:

MFG - IN ACCORDANCE WITH MIL - T - 27A EXCEPT MIL - 7 - 27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

QTY / UNIT	MODEL USED ON	ASS'Y NO.
1	HFLM 10K	
APPLICATION		
	CODE	5401-30 (3091)
NOTICE TO PERSONS RECEIVING THIS DRAWING		
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	FRACTIONS 1/64 ANGLES 0° - 30'
MATERIAL SEE SPECS	
FINISH SEE SPECS	

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
F. BUDETT LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
ALITO TRANSFORMER				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 410	A	
SCALE NONE			SHEET OF	

5

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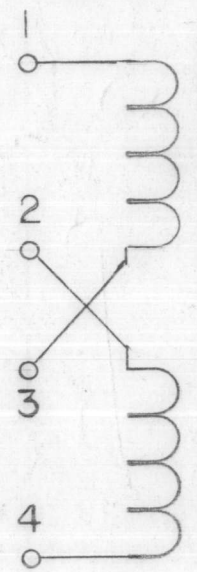
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2

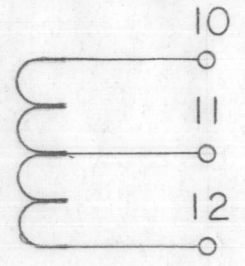
1

REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD APPD
	X	EXP RELEASE	5-17-71		RF	
	Ø	ORIG RELEASE FOR PROD	6/7/71		CV	P.E.B. P.E.B.
	A	DELE. TERM. 5 & 9, CHG. TERM. 11 VALUE	6-22-71	20410	R.F.	R.D. P.E.B.
	B	ADD. LUGS, CHG. DIM & LUG ORDER	8-17-71	20426	R.F.	R.D. P.E.B.

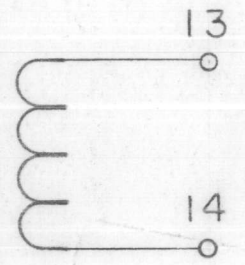
115/230
50/60



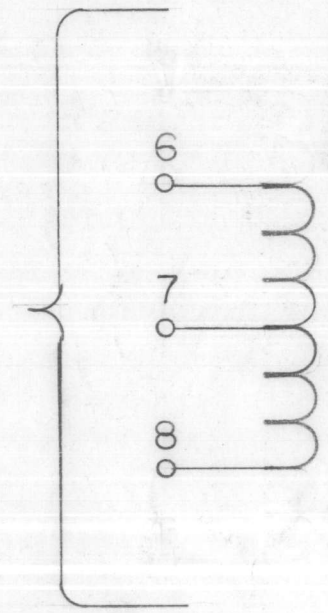
725 VDC
200 ma



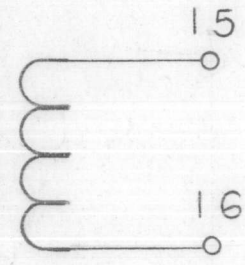
85 VDC
15 ma



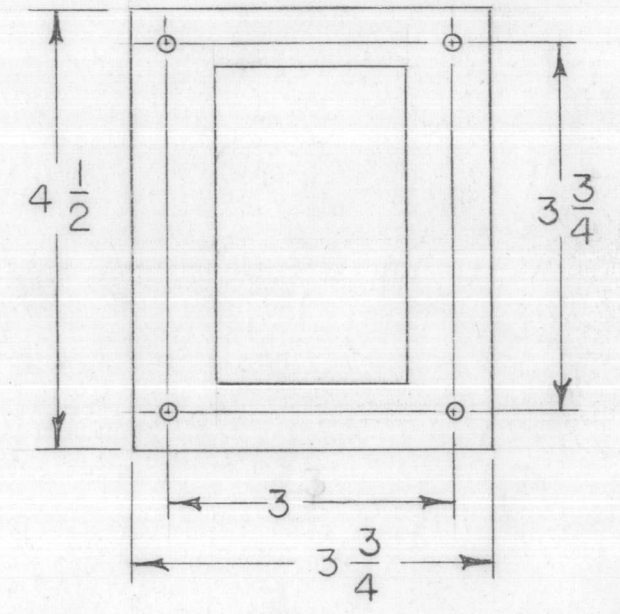
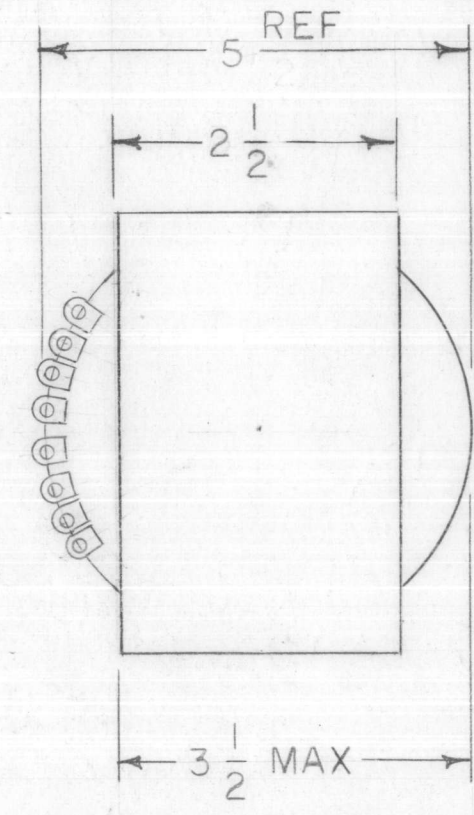
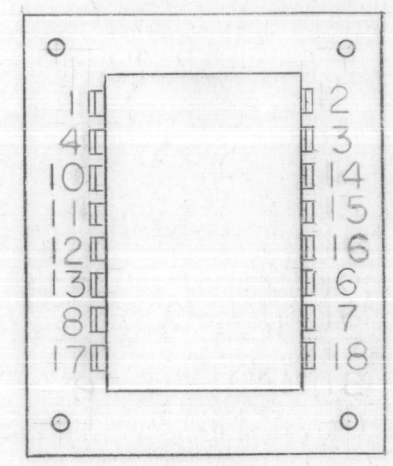
12.6 VAC
2 A



12 VDC
INPUT



30 VDC
1.5 A



REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 411	B	
SCALE	SHEET		OF	
~	1		1	

I	TM-125	ASS'Y NO.
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
	CODE	
<p>NOTICE TO PERSONS RECEIVING THIS DRAWING THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.</p>		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	FRACTIONS 1/64 ANGLES 0° .30'
MATERIAL	
FINISH BLACK MATT	

FINAL APPROVAL	DATE
MECH. DES.	DATE
ELECT. DES.	DATE
CHECKED <i>B.F.</i>	DATE 6-7-71
DRAWN <i>R. Forlano</i>	DATE 5-17-71

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REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD APPD
	X	EXP RELEASE	3-29-71		RF	
	Ø	ORIG RELEASE FOR PROD	4/1/71		CV	<i>RF</i>

D

D

C

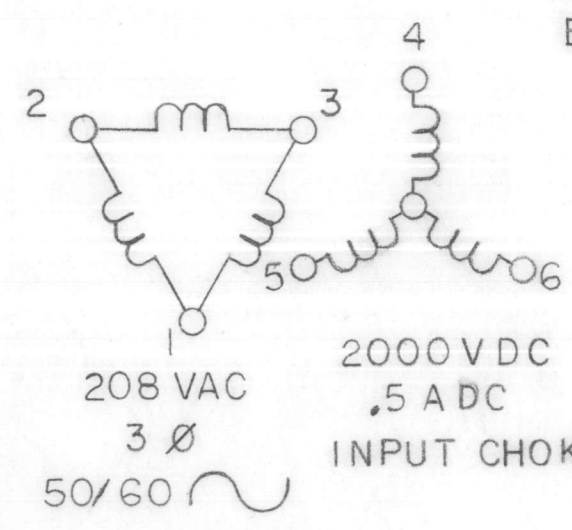
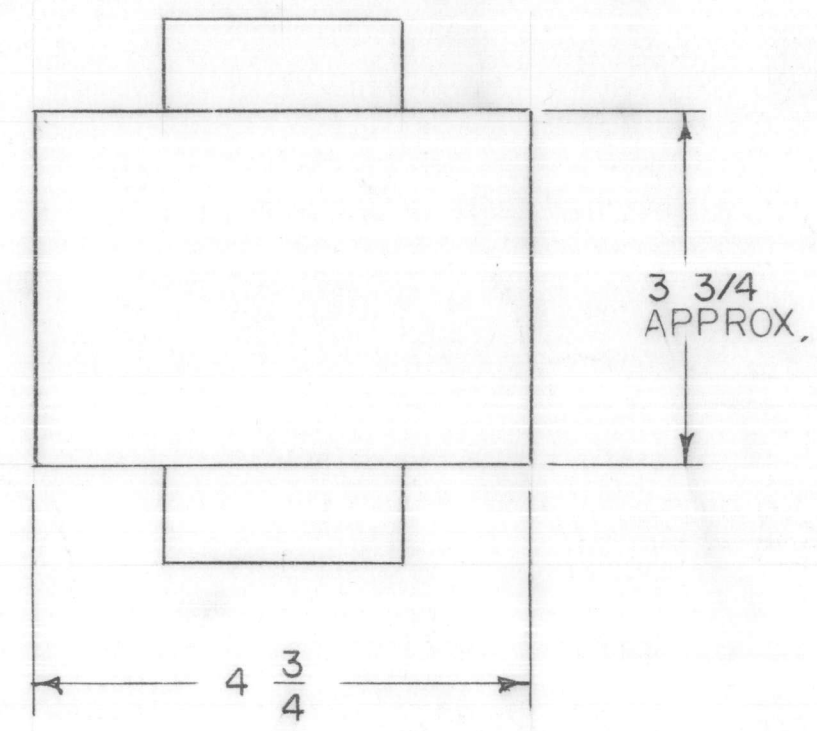
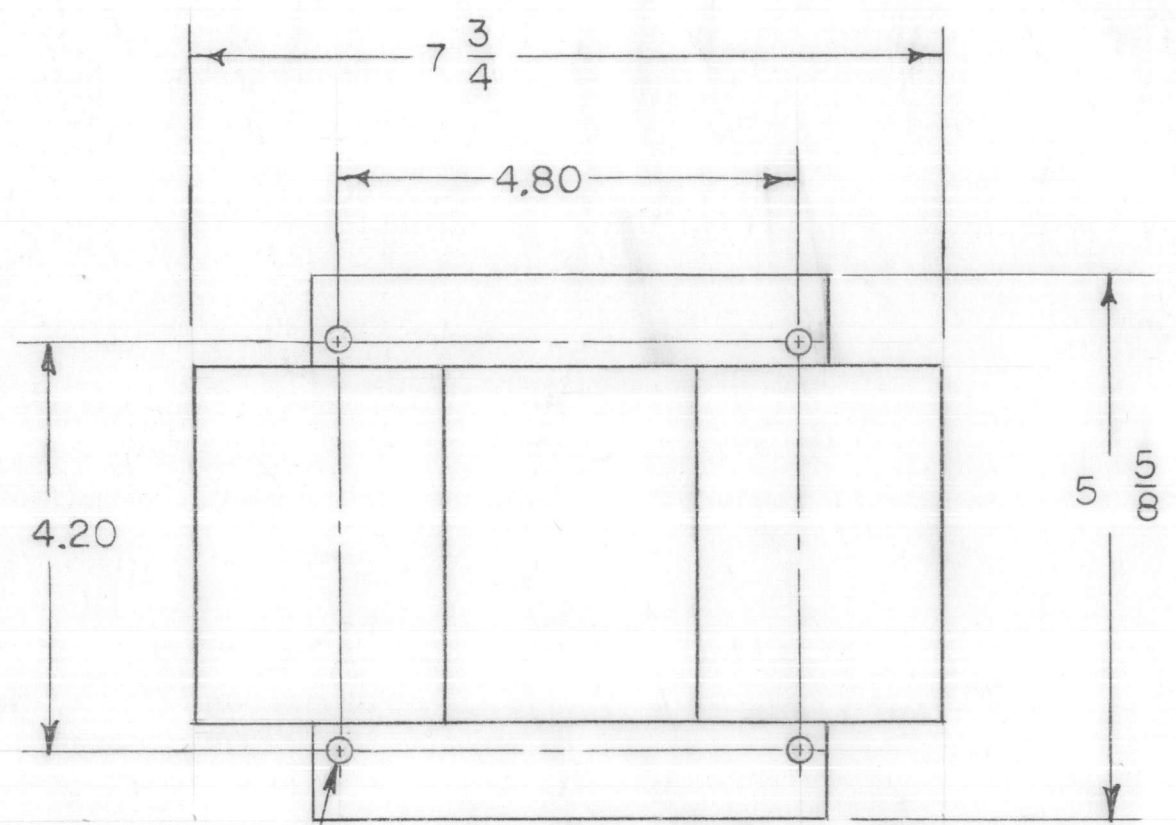
C

B

B

A

A



2000 VDC
.5 ADC
INPUT CHOKE CONN.

1	BCT-10K	
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
	CODE	S401-30 (9220)

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UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 AND INCLUDE CHEMICALLY APPLIED
 OR PLATED FINISHES

DECIMALS .X ± .05
 .XX ± .01
 .XXX ± .005
 FRACTIONS 1/64
 TOLS. ANGLES 0° -30'

MATERIAL
 FINISH

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
F. BUDETTI LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
OUTLINE DRAWING TRANSFORMER				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF-412	Ø	
SCALE 1/2			SHEET 1 OF 1	

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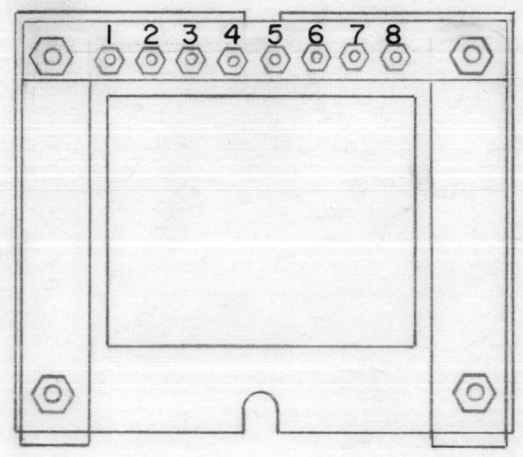
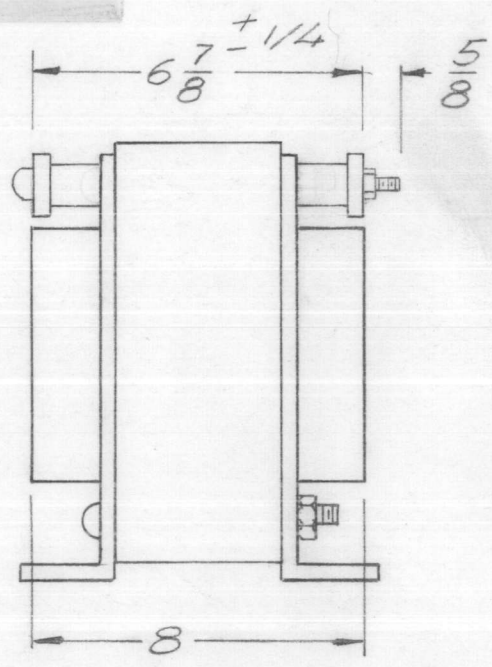
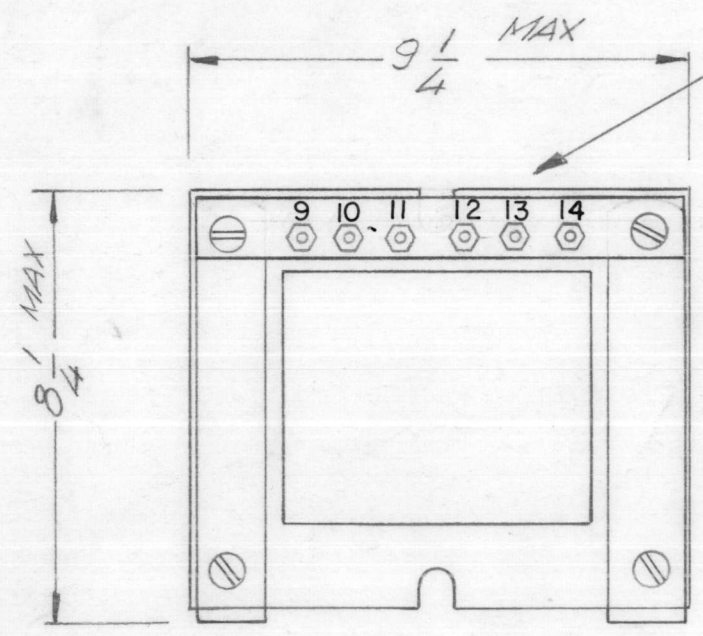
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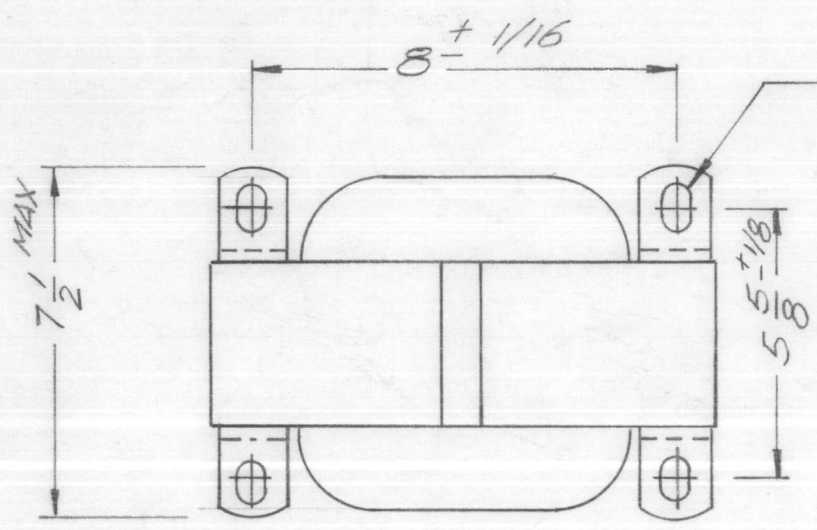
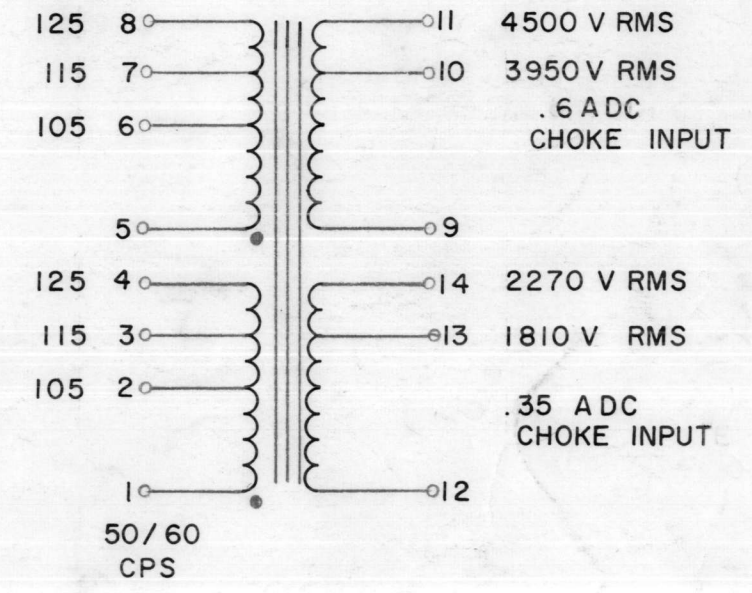
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REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD APPD
	X	EXP RELEASE	8-19-70		GE	
	Ø	ORIGINAL RELEASE	9/13/71		W	GE
	A	TOLERANCE CHG	2/5/71	20966	GE	W GE
	B	NOTE ADDED	1/20/72	20525	RG	W GE

MARK TMC PART NUMBER
1/8 HIGH GOTHIC WITH LATEST
REVISION LETTER



NOTE: XFMR TO BE
MANUFACTURED WITH
CLASS B HI TEMP
INSULATION.



3/8 x 3/4 SLOT
(4 REQ)

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
BUDETTI LIST OF MATERIAL				
FINAL APPROVAL		DATE	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
MECH. DES.		DATE		
ELECT. DES.		DATE		
CHECKED		DATE		
DRAWN		DATE	XFMR PLATE	
5401-30 (78678)		8-19-70		
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 413	B	
SCALE		SHEET OF		

QTY / UNIT	MODEL USED ON	ASS'Y NO.	DECIMALS	FRACTIONS	TOLS.	ANGLES
1	HFLA-1K	AP152	.X ± .05	1/64		
1	HFLM-1K	AP150	.XX ± .01			
			.XXX ± .005			0° -30'

APPLICATION

CODE

MATERIAL

FINISH

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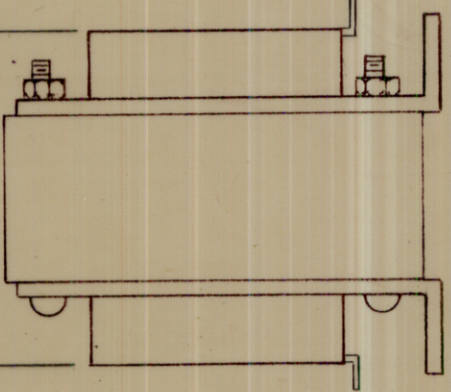
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2

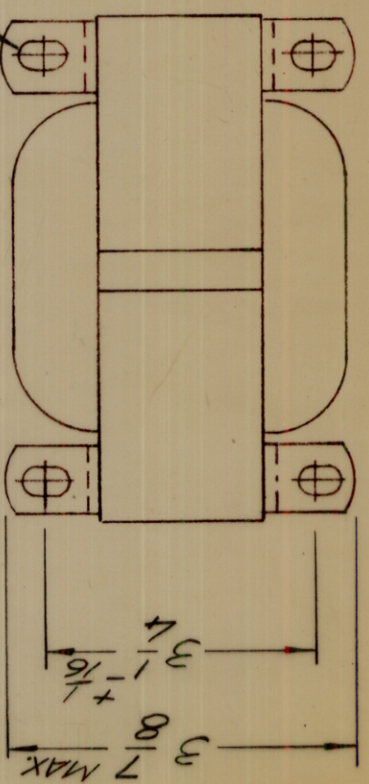
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MARK TMC PART NUMBER
1/8 HIGH GOTHIC WITH LATEST
REVISION LETTER

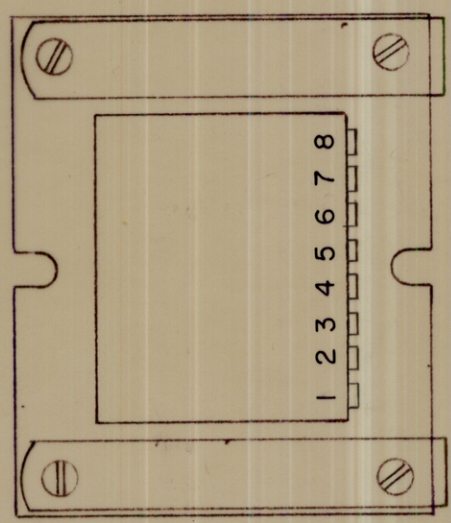
3 7/8 MAX.



13/64 X 5/16
SLOT (4)



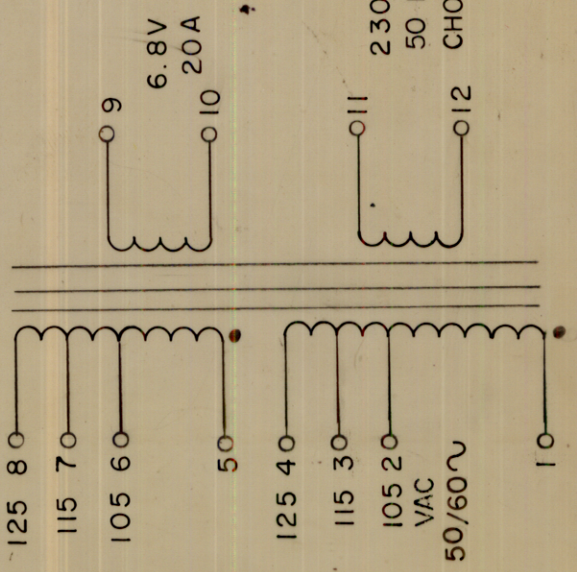
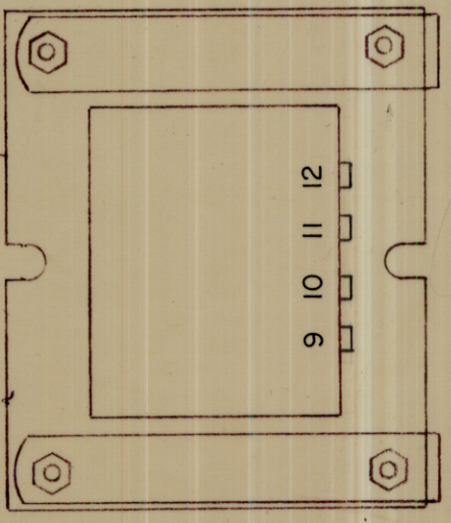
3 7/8 MAX.



2 15/16 MAX.

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	E.M.N.O	DRAFT	CHKD	APPD
	X	EXP RELEASE	8/18/70		GE		
	Ø	ORIGINAL RELEASE	8/18/71		W		P.E.A.
	A	ADD VAC 50/60w To SCH.	4/26/72	20608	GE	EG	EG

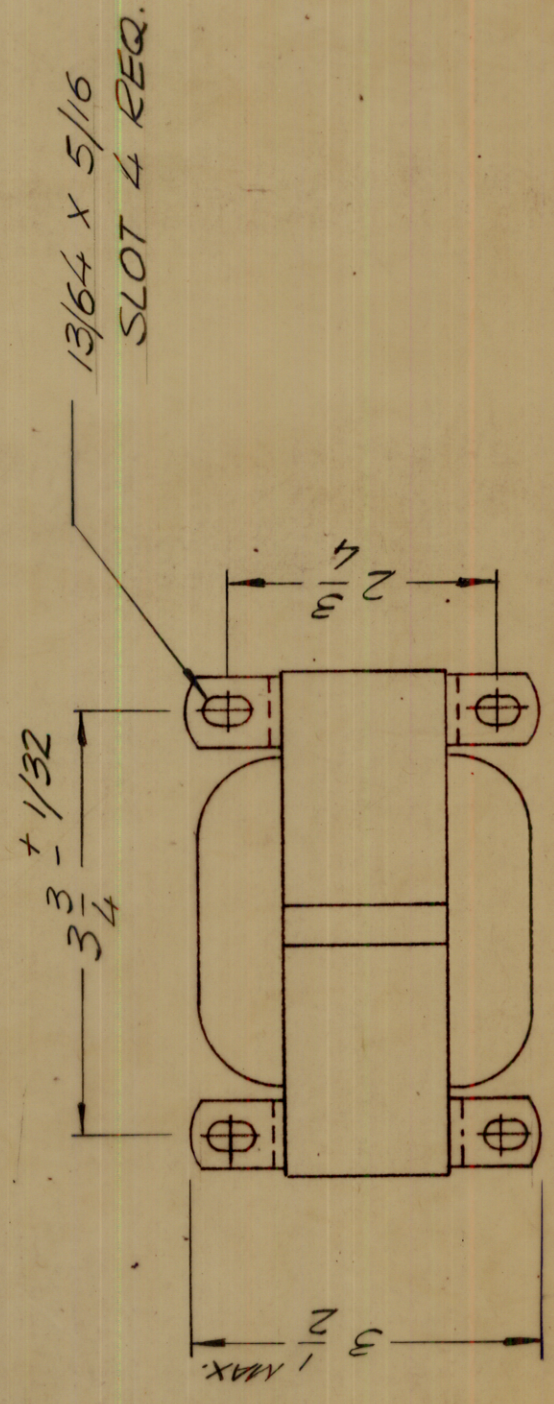
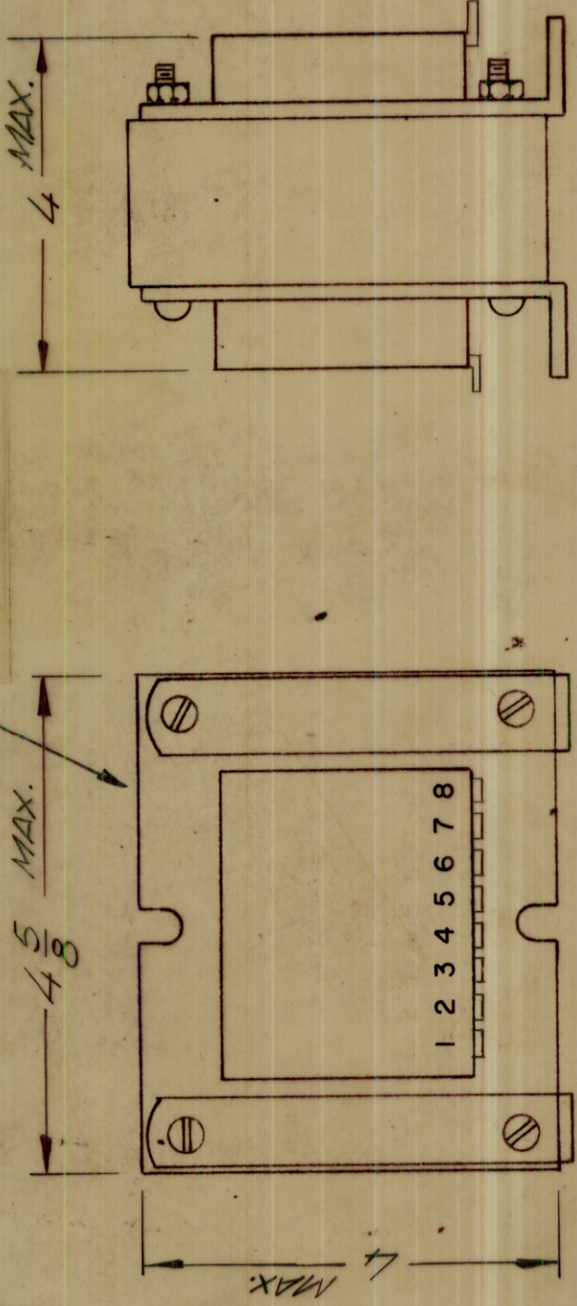


REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
BUDGET 1		LIST OF MATERIAL	
FINAL APPROVAL	DATE 3 Feb 71	THE TECHNICAL MATERIEL CORP.	
MECH. DES.	DATE	MAMARONECK, NEW YORK	
ELECT. DES.	DATE 3 Feb 71	XFMR, FILA	
CHECKED	DATE		
DRAWN	DATE 8/18/70		
5401-3a(9089 B)		SIZE B	CODE IDENT. NO. 82679
		SCALE Dg 407	SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	FRACTIONS 1/64
DECIMALS .X ± .05	TOLS. ANGLES 0°-30'
.XX ± .01	
.XXX ± .005	
MATERIAL	FINISH

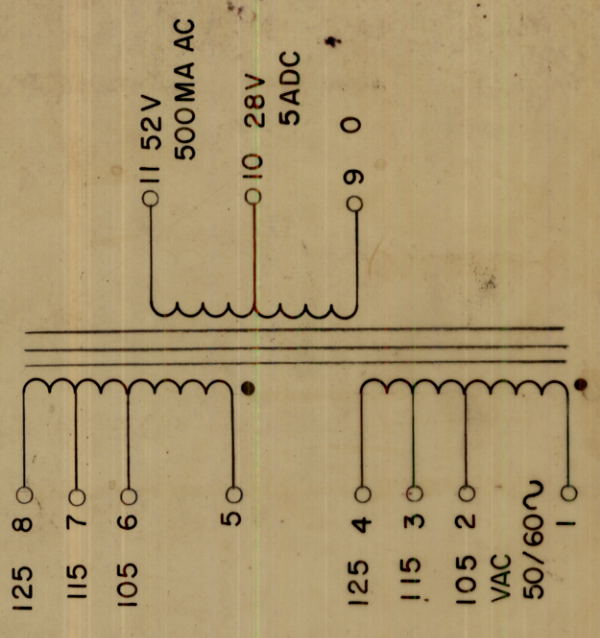
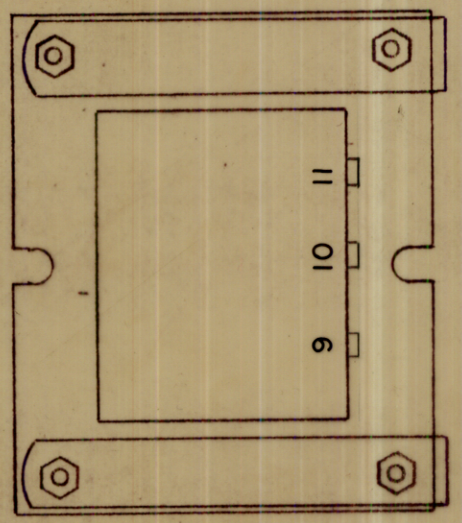
QTY / UNIT	MODEL USED ON	ASSY NO.
1	HFLM-1K	AP149
APPLICATION		
CODE		
<p>NOTICE TO PERSONS RECEIVING THIS DRAWING</p> <p>THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.</p>		

MARK TMC PART NUMBER
1/8 HIGH GOTHIC WITH LATEST
REVISION LETTER



REVISIONS

ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	X	EXP RELEASE	8/19/70		GE		
	Ø	ORIGINAL RELEASE	8/19/71		Ø		Ø
	A	ADD VAC 50/60 TO SCH.	4/26/72	20608	GE	Ø	Ø



REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
BUDETT I			
FINAL APPROVAL	DATE 3/28/71	LIST OF MATERIAL	
MECH. DES.	DATE	THE TECHNICAL MATERIEL CORP.	
ELECT. DES.	DATE 3/28/71	MAMARONECK, NEW YORK	
CHECKED	DATE	XFMR, L.V.	
DRAWN	DATE 8/19/70	SIZE	ISSUE
		B	A
5401-30 (9090C)		CODE IDENT. NO.	DWG NO.
		82679	TF 415
		SCALE 20 X 107	SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	FRACTIONS 1/64
DECIMALS .X ± .05	TOLS. ANGLES 0°-30'
.XX ± .01	
.XXX ± .005	
MATERIAL	FINISH

QTY / UNIT	MODEL USED ON	ASSY NO.
1	HFLM-1K	API49
APPLICATION		
CODE		

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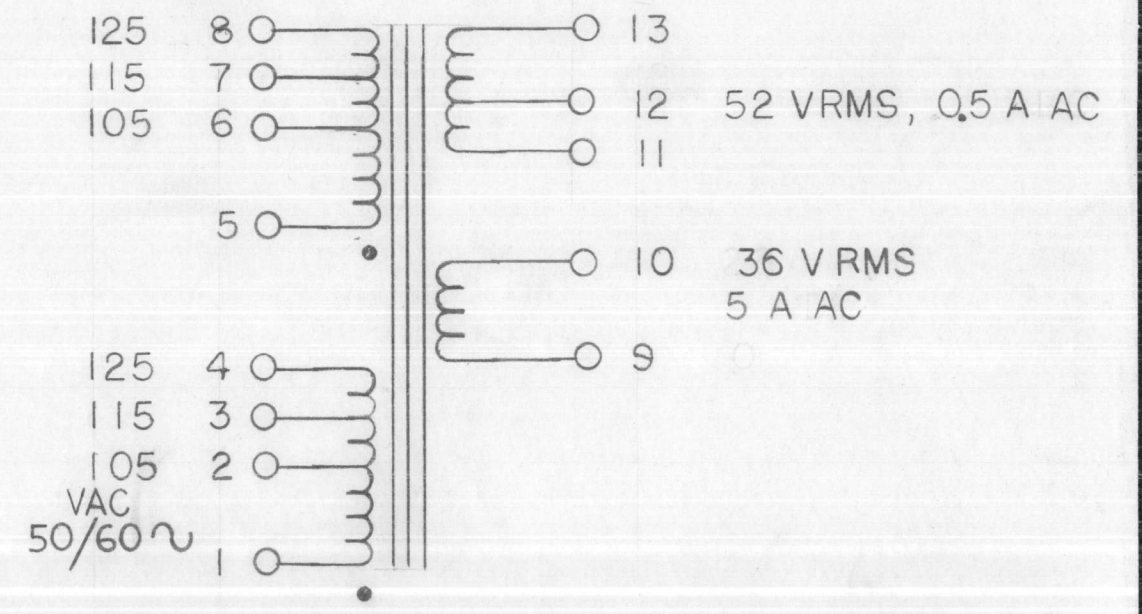
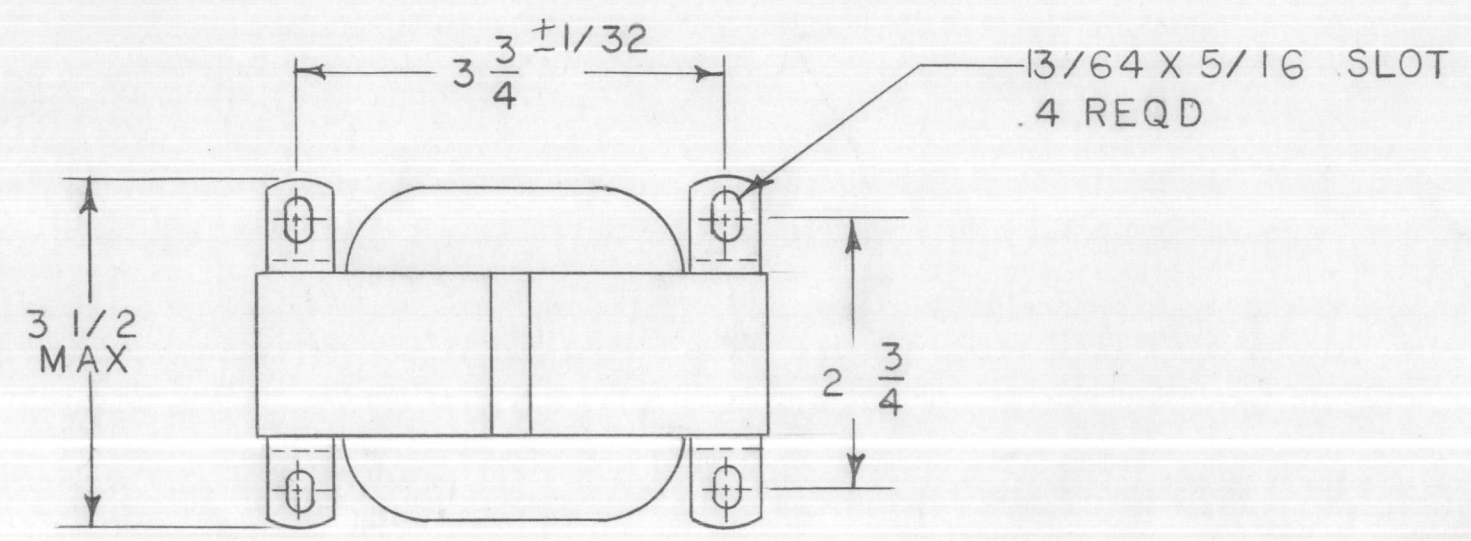
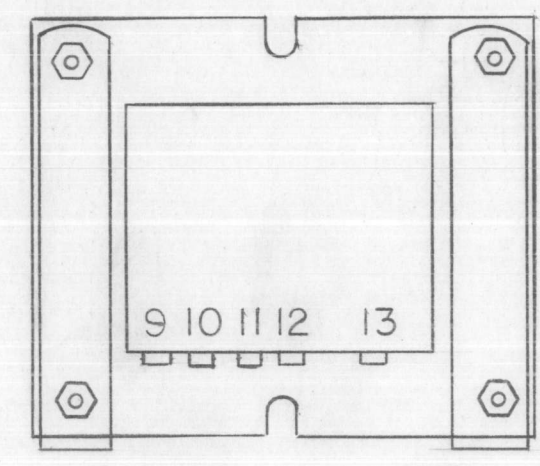
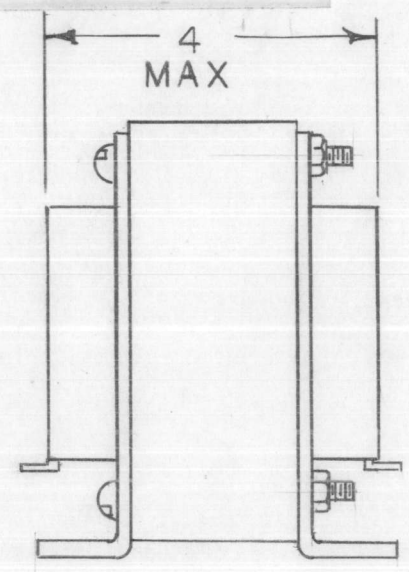
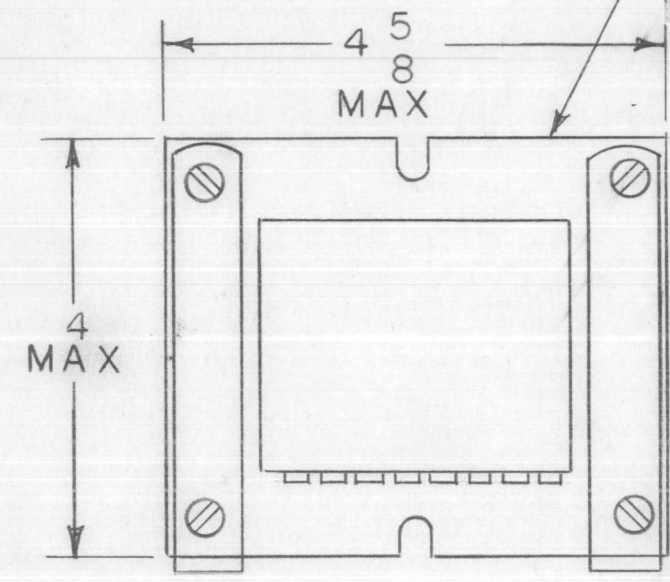
2

1

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	X	EXPERIMENTAL RELEASE	2-25-71		RF		
	Ø	ORIGINAL RELEASE	5/15/71		W		Spel
	A	ADD VAC 50/60N TO SCH.	4/26/72	20608	GE	Ø	Ø

MARK TMC PART NUMBER
1/8 HIGH GOTHIC WITH LATEST
REVISION LETTER



REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
F. BUDETTI LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
XFMR, LV.				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 416	A	
SCALE ~			SHEET / OF /	

I	HFLA-1K	AP-151
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
CODE		

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS	FRACTIONS
.X ± .05	1/64
.XX ± .01	ANGLES
.XXX ± .005	0° .30'

MATERIAL

FINISH

FINAL APPROVAL *[Signature]* DATE 15/May/71

MECH. DES. *[Signature]* DATE 15/May/71

ELECT. DES. DATE

CHECKED DATE

DRAWN *R. Forlano* DATE 2-25-71

S 401-30(9579)

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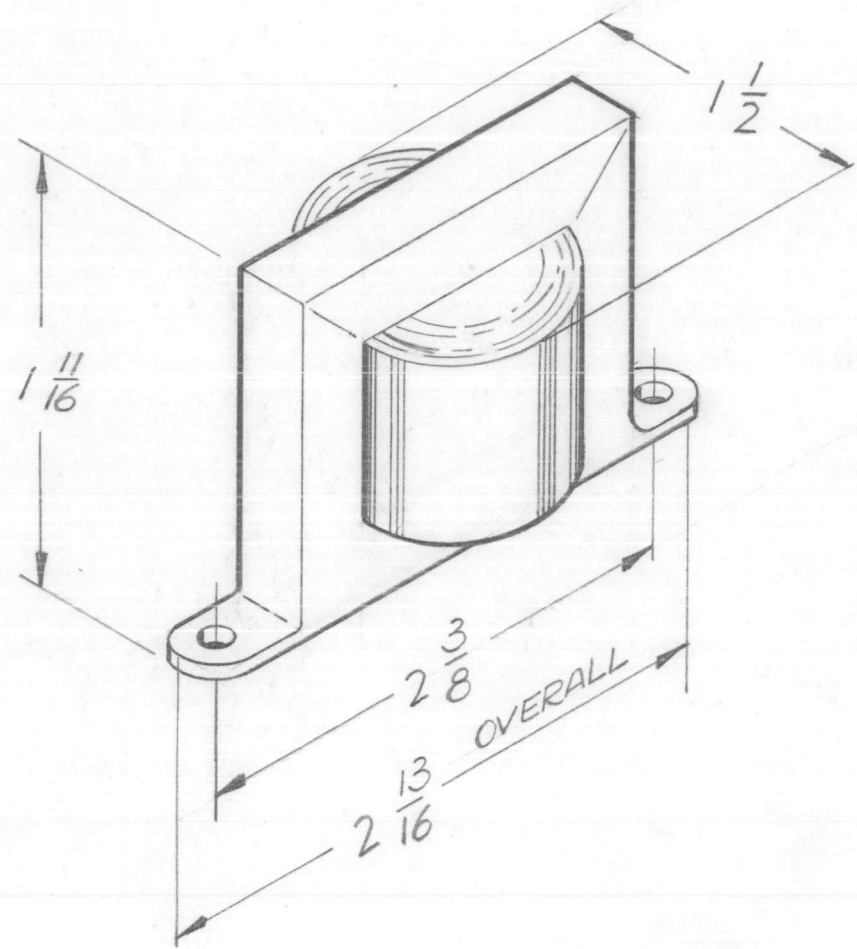
4

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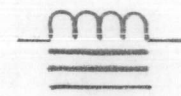
1

REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	<i>ES</i>			\emptyset	ORIGINAL RELEASE FOR PRODUCTION	6/29/72	



SPECIFICATIONS

VALUE _____ 0.7HY - 15% + 50%
 CURRENT RATING _____ 290 ma
 DC RESISTANCE _____ 30 OHMS



MFG. PART NO. 6X35HF

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
O.P. LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		FINAL APPROVAL	DATE	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK <i>CHOKES, FILTER</i>
DECIMALS .X ± .05 FRACTIONS 1/64		MECH. DES.	DATE	
.XX ± .01 TOLS. ANGLES		ELECT. DES.	DATE	
.XXX ± .005 0° -30'		CHECKED	DATE	
MATERIAL		DRAWN	DATE	
FINISH				
APPLICATION QTY / UNIT MODEL USED ON ASS'Y NO. CODE		5401-518 DATE 6/28/72		SIZE B CODE IDENT. NO. 82679 DWG NO. TF418 ISSUE \emptyset
NOTICE TO PERSONS RECEIVING THIS DRAWING THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.		SCALE NTS SHEET OF		

5

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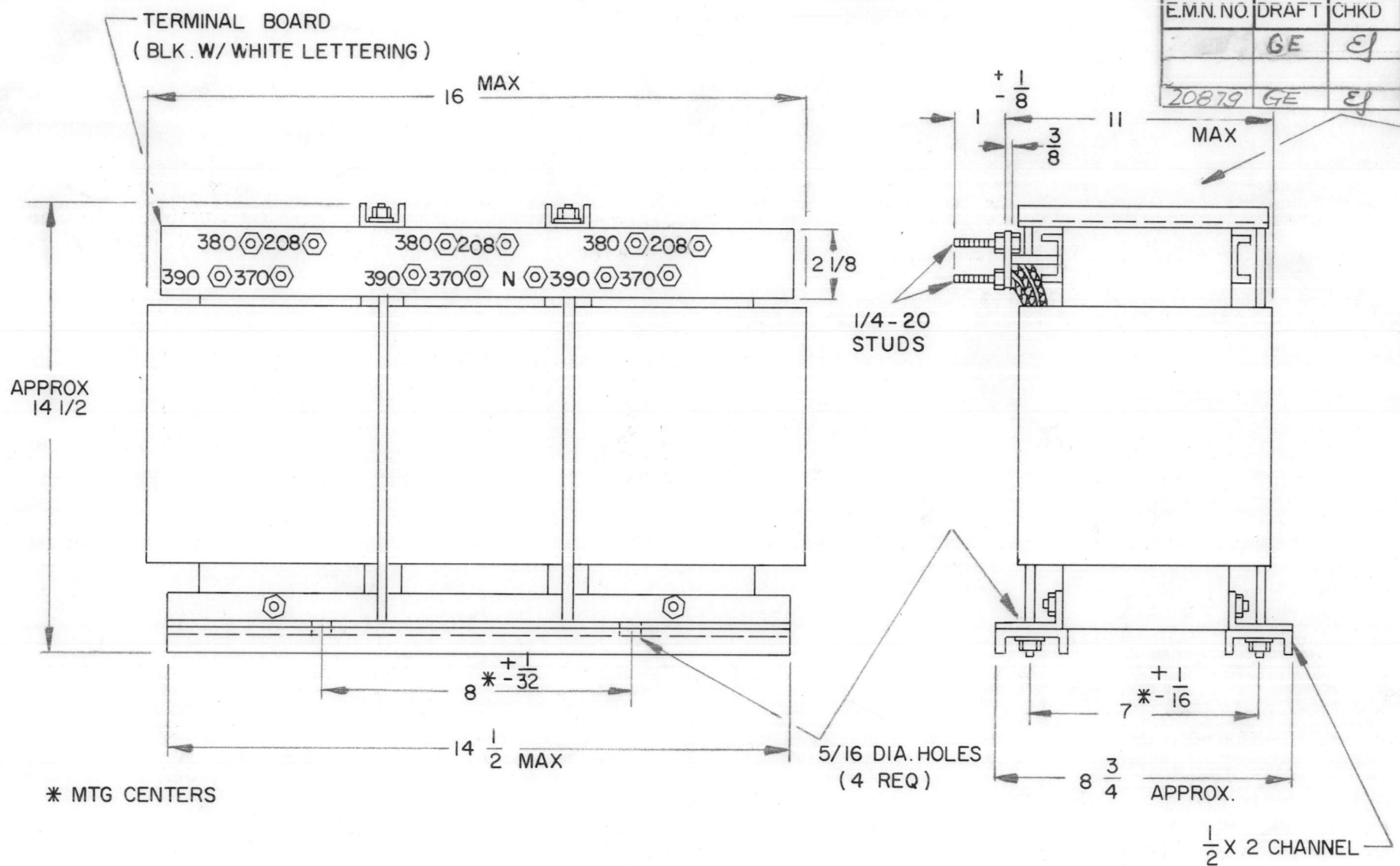
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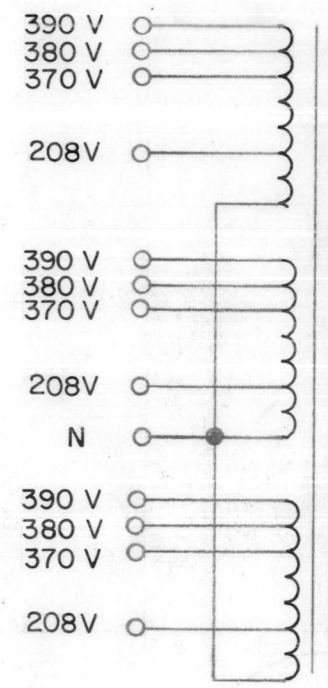
REVISIONS

E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	GE	EJ		A	7* WAS 5* - 8 3/4 WAS 6 3/4 &	3/23/72	EJ
					COMPLETELY REDRAWN (ORIG. DESTROYED)		
20879	GE	EJ		B	208V WAS 230V	9/18/72	EJ



THE TECHNICAL MATERIEL CORPORATION
MAMARONECK
NEW YORK

TF419



SCHEMATIC TO BE STAMPED ON XMTR, IN WHITE

SPECIFICATIONS

WINDING DATA:

1. INPUT: 390, 380, 370 VAC, 50HZ, 3PH
2. OUTPUT VOLTAGE: 208 VAC, NEUTRAL
3. OUTPUT CURRENT RATING: 100 AMP, RMS
4. BREAKDOWN TEST VOLTAGE: 2000 VAC
5. CASE: OPEN FRAME
6. FINISH: S115 SMOOTH GREY ENAMEL EXCEPT TERMINAL BOARDS & TERMINALS
7. TERMINAL BOARD 3/8" THICK

NOTE:
MFG: IN ACCORDANCE WITH MIL-T-27A EXCEPT THAT MIL-T-27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

QTY / UNIT	MODEL USED ON	ASS'Y NO.
1	BCT-10K	
APPLICATION		
	CODE	
<p>NOTICE TO PERSONS RECEIVING THIS DRAWING THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.</p>		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	FRACTIONS 1/64 ANGLES 0° -30'
MATERIAL SEE SPECS	
FINISH SEE SPECS	

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
F.B. LIST OF MATERIAL				
<p>FINAL APPROVAL _____ DATE _____</p> <p>MECH. DES. _____ DATE _____</p> <p>ELECT. DES. _____ DATE _____</p> <p>CHECKED _____ DATE _____</p> <p>DRAWN GE DATE 9/9/71</p>				
<p>THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK</p>				
<p>AUTO TRANSFORMER</p>				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF419	B	
SCALE NONE			SHEET	OF

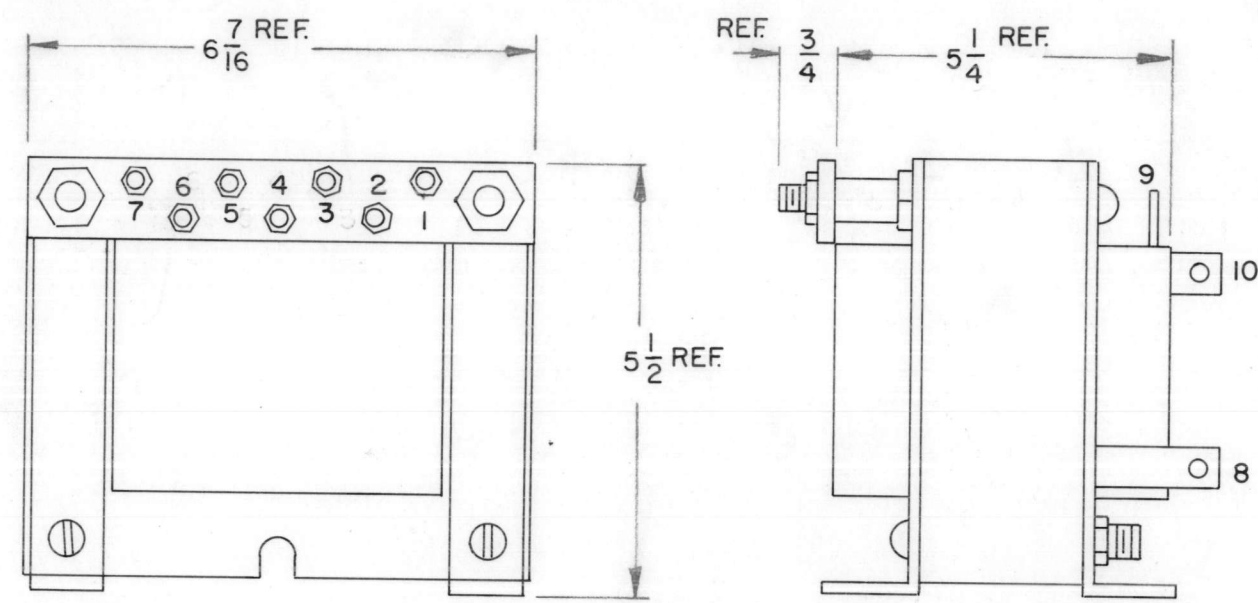
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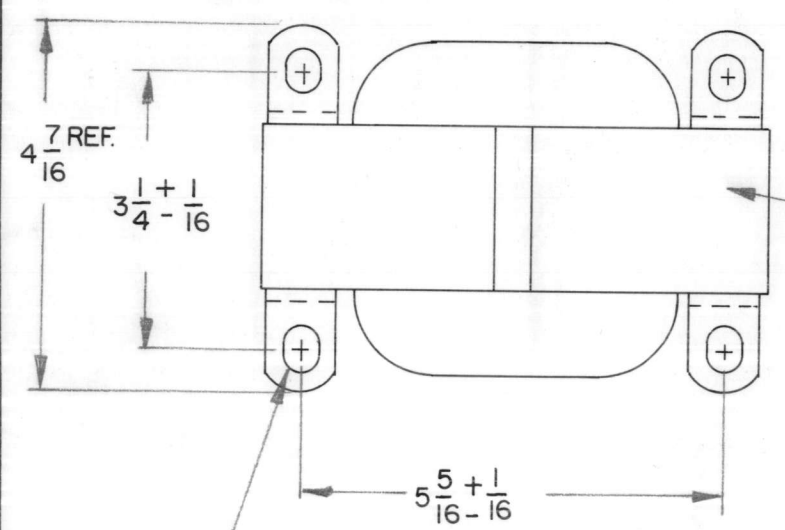
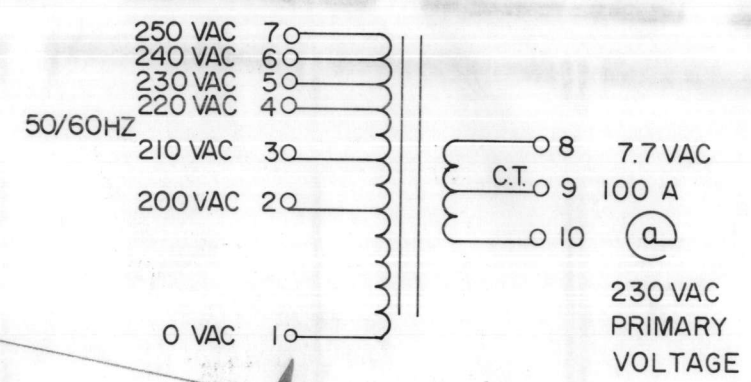
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1



THE TECHNICAL MATERIEL CORP
MAMARONECK NEW YORK
TF 421



TO BE PLACED IN THIS AREA

REPLACES TF 383

REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	GE	ES		Ø	ORIGINAL RELEASE	4/5/72	F.B.

ELECT. SPECS:
 PRIMARY WINDING
 VOLTAGE : 200-250 VAC.
 FREQUENCY : 50-60 HZ
 PHASE : SINGLE
 SECONDARY WINDING
 VOLTAGE : 7.7 VAC C.T. @ 230 V PRI.
 CURRENT : 100 A
 INSULATION TEST VOLTAGE : 1500 VRMS

MECH. SPECS:
 CASE : OPEN FRAME
 FINISH : BLACK MATT EXCEPT TERMINALS
 DIMENSIONS : SHOWN PICTORALLY
 TERMINALS : PRIMARY 10-32 THREADED STUD
 SECONDARY : 8+10, COPPER BAR WITH
 3/16 DIA. HOLES
 9, SOLDER TYPE LUG

STAMPING:
 ACCORDING TO TMC SPEC 5727 WHITE GOTHIC
 LETTERING & LINE WORK.
 SCHEMATIC TO BE PLACED AS SHOWN

NOTE:
 MANUFACTURED IN ACCORDANCE WITH MIL-SPEC.
 T-27-A, EXCEPT THAT MIL-SPEC. T-27-A SHALL NOT APPEAR
 ON THE CASE & QUALIFICATION TESTING NOT REQUIRED

QTY / UNIT	MODEL USED ON	ASS'Y NO.
1	HFLA-10K	API48
APPLICATION		
	CODE	5401-30

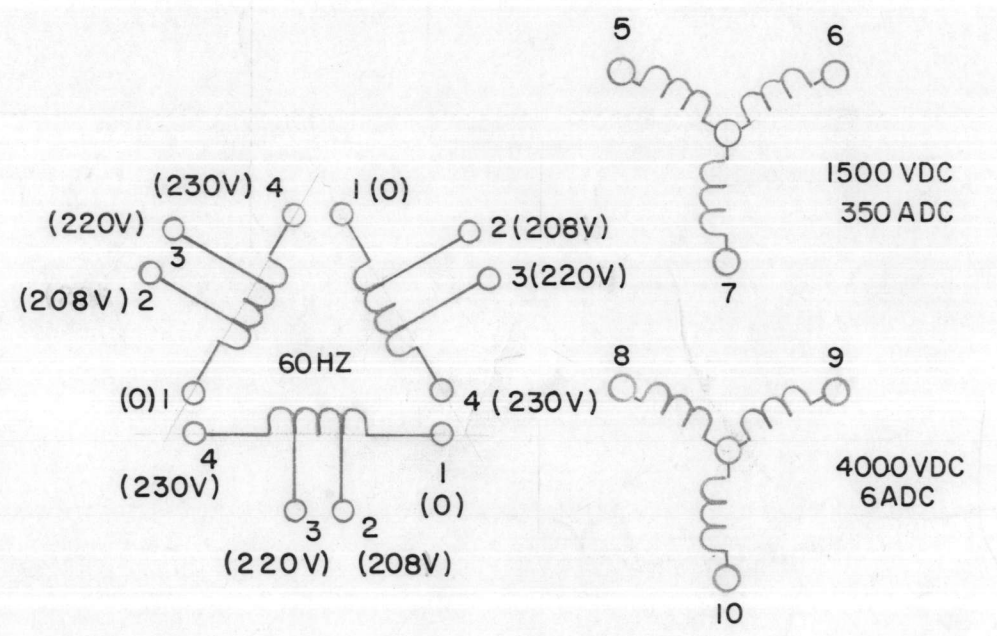
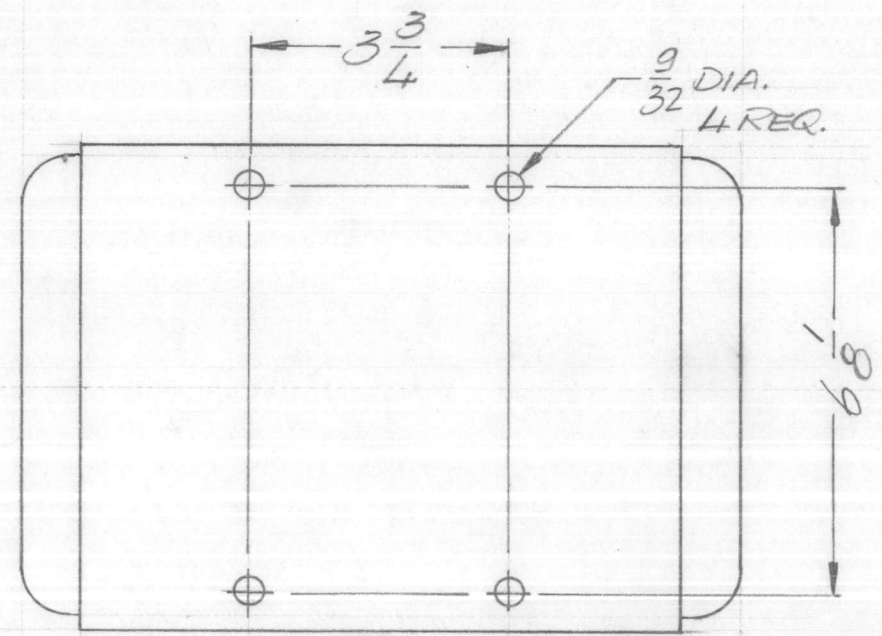
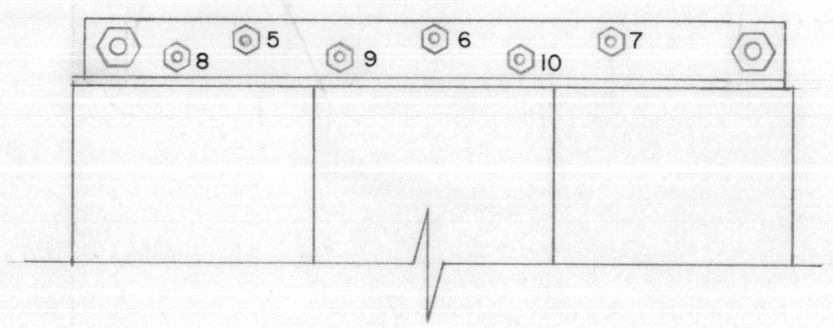
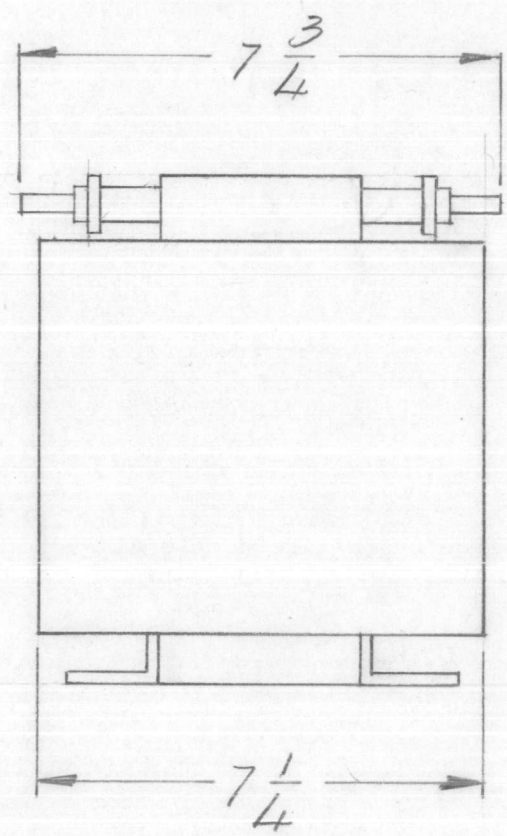
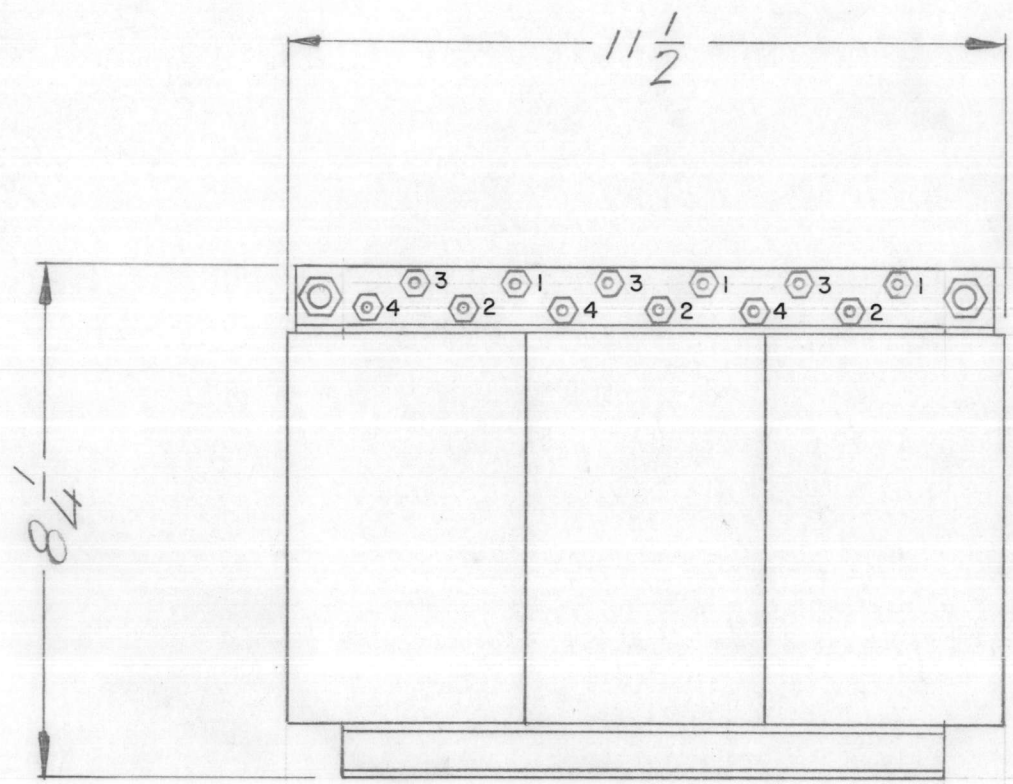
NOTICE TO PERSONS RECEIVING THIS DRAWING
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REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			FINAL APPROVAL [Signature]	DATE 4/5/72
DECIMALS .X ± .05 FRACTIONS 1/64 TOLS. ANGLES 0° -30'			MECH. DES.	DATE
MATERIAL			ELECT. DES.	DATE
FINISH			CHECKED	DATE
			DRAWN GE	DATE 3/2/72
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 421	Ø	
SCALE NTS			SHEET 1 OF 1	

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

TRANSFORMER, FILAMENT

REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	CS			Ø	ORIGINAL Release	7-27-73	



1	AP154	
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
MFG. P/N 10507	CODE	SL401-30

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS: .X ± .05, .XX ± .01, .XXX ± .005
 FRACTIONS: 1/64, ANGLES: 0° - 30'

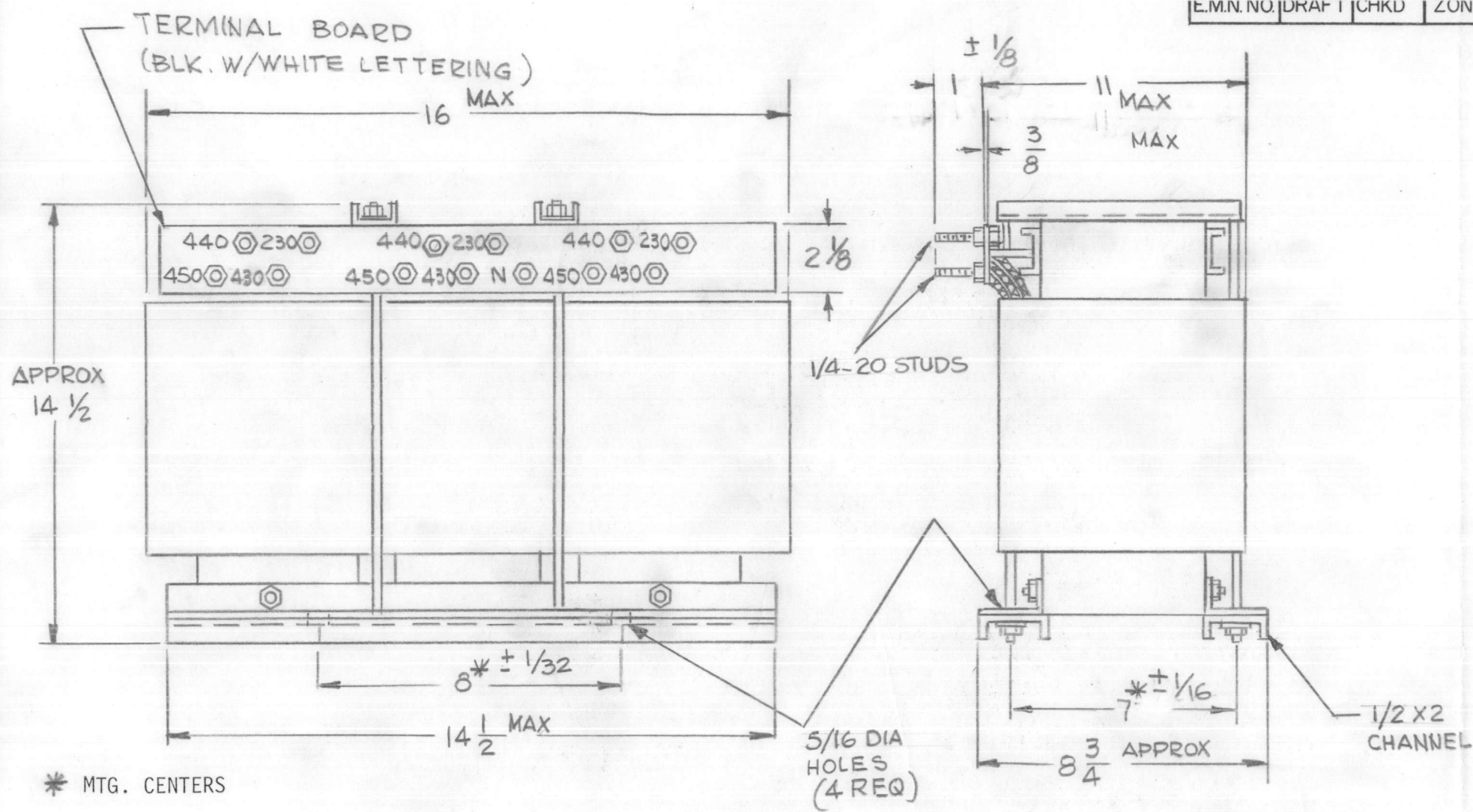
TOLS.

MATERIAL

FINISH

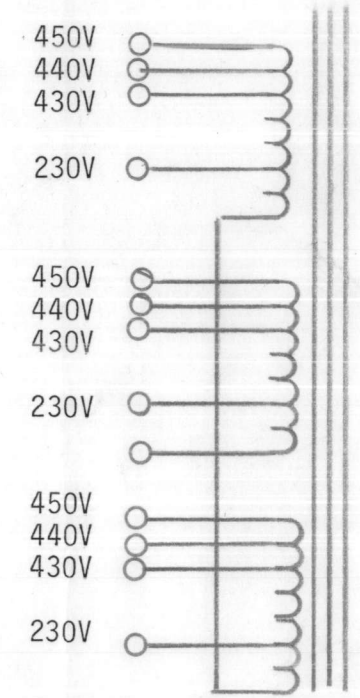
REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
F. BUDETTI LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
XFMR 3 PHASE				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 426	Ø	
SCALE NTS			SHEET	OF

REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED



THE TECHNICAL MATERIEL CORPORATION
MAMARONECK NEW YORK

TF435



SCHEMATIC TO BE STAMPED ON XMTR, IN WHITE

SPECIFICATIONS

WINDING DATA:

1. INPUT: 430, 440, 450 VAC, 50/60/HZ, 3PH
2. OUTPUT VOLTAGE 230 VAC, NEUTRAL
3. OUTPUT CURRENT RATING: 100 AMP, RMS
4. BREAKDOWN TEST VOLTAGE: 2000 VAC
5. CASE: OPEN FRAME
6. FINISH: S115 SMOOTH GREY ENAMEL EXCEPT TERMINAL BOARDS & TERMINALS
7. TERMINAL BOARD 3/8" THICK

NOTE:
MFG. IN ACCORDANCE WITH MIL-T-27A
EXCEPT THAT MIL-T-27A SHALL NOT
APPEAR ON CASE AND QUALIFICATION
TESTING IS NOT REQUIRED.

1	BCT 10K		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES
1	HFL 10K		
QTY / UNIT	MODEL USED ON	ASS'Y NO.	
APPLICATION			DECIMALS FRACTIONS
CODE			.X ± .05 TOLS. 1/64
			.XX ± .01 ANGLES
			.XXX ± .005 0° -30'
NOTICE TO PERSONS RECEIVING THIS DRAWING			MATERIAL
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REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
FINAL APPROVAL <i>[Signature]</i> DATE <i>8-76</i>				
MECH. DES. DATE				
ELECT. DES. DATE				
CHECKED DATE				
DRAWN <i>GDL</i> DATE <i>10-7-76</i>				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF435		
SCALE	SHEET		OF	

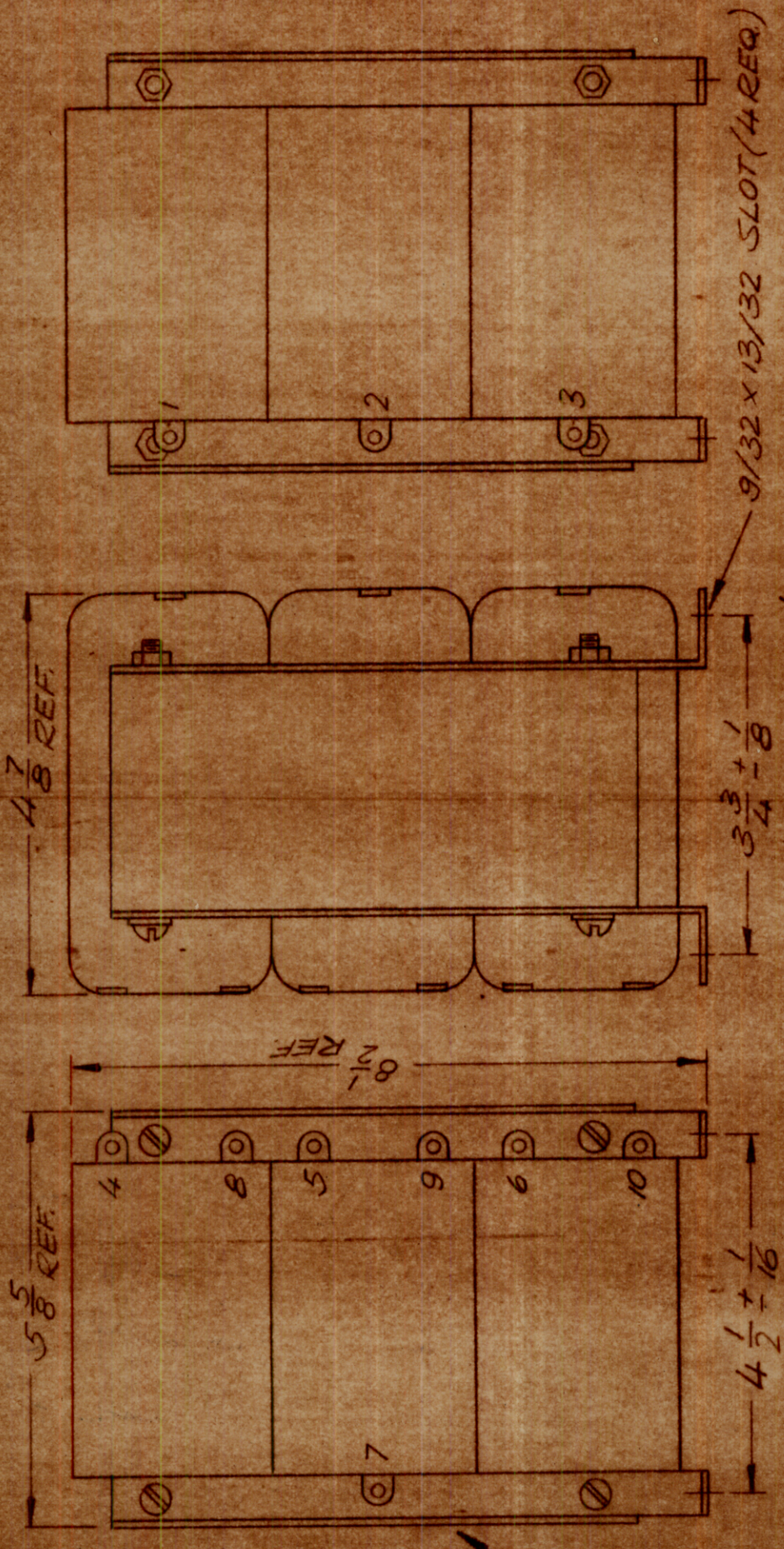
THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK
AUTO TRANSFORMER

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	E.M.N. NO

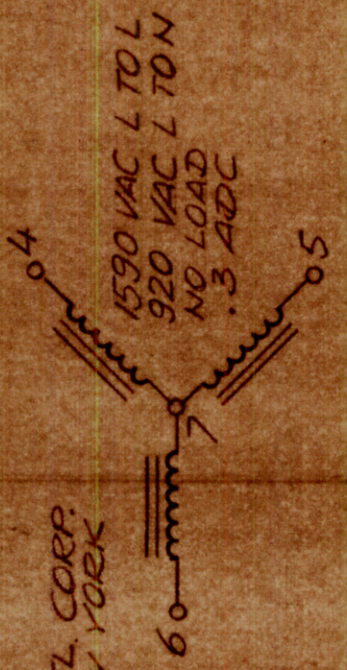
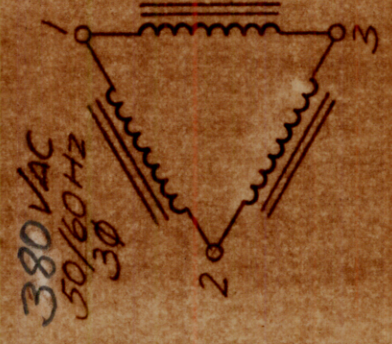
ELECT. SPECS
 PRIMARY WINDING
 VOLTAGE: 380 VAC
 FREQUENCY: 50/60 HZ
 PHASE: 3
 SECONDARY WINDING #1
 VOLTAGE: 1590 VAC LINE TO LINE
 920 VAC LINE TO NEUTRAL } NO LOAD
 CURRENT: .3 ADC
 SECONDARY WINDING #2
 VOLTAGE: 1590 VAC LINE TO LINE
 CURRENT: .1 ADC
 INSULATION TEST: PRIMARY 1500 VRMS
 SECONDARY 4500 VRMS

MECH. SPECS
 CASE: OPEN FRAME
 FINISH: BLACK MATT EXCEPT TERMINALS
 DIMENSIONS: SHOWN PICTORIALY
 TERMINALS: SOLDER LUG
 STAMPING: ACCORDING TO TMC SPEC. S 727 WHITE
 ACCORDING TO TMC SPEC. S 727 WHITE
 GOTHIC LETTERING AND LINE WORK.
 SCHEMATIC TO BE PLACED AS SHOWN.

NOTE:
 MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A
 EXCEPT THAT MIL-SPEC T-27-A SHALL NOT APPEAR ON
 THE CASE AND QUALIFICATION TESTING IS NOT REQUIRED.



THE TECHNICAL MATERIEL CORP.
 MAMARONECK
 NEW YORK
 TF 386



REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
F. BUDETTI			
FINAL APPROVAL	DATE	DATE	
MECH. DES.	DATE	DATE	
ELECT. DES.	DATE	DATE	
CHECKED	DATE	DATE	
DRAWN	DATE	DATE	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDES CHEMICALLY APPLIED OR PLATED FINISHES	DECIMALS	FRACTIONS	TOLS.	ANGLES	FINISH
	.X ± .05	1/64		0°-30°	
	.XX ± .01				
	.XXX ± .005				
MATERIAL					
APPLICATION					
QTY / UNIT	MODEL USED ON	ASSY NO.			
1	HFL 110K	AP 148			
1	FALA 10K	AP 148			
CODE		S401-30(8739)			

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REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL			
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
TRANSFORMER, POWER			
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE
B	82679	TF 438	0
SCALE	SHEET	OF	
	2	1	

ZONE	LTR	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
	X	EXPERIMENTAL RELEASE	3/28/58		C.V.		
	Ø	CRIG ORIGINAL RELEASE	9-20-58		MC		FB

REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
F. BUDETTI		LIST OF MATERIAL	
FINAL APPROVAL		DATE	
MECH. DES.		DATE	
ELECT. DES.		DATE	
CHECKED		DATE	
DRAWN		DATE	

REVISIONS

DESCRIPTION

DATE

E.M.N. NO.

DRAFT

CHKD

APPD

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS
X ± .05 TOLS. 1/64
.XX ± .01 ANGLES 0° 30'

MATERIAL

FINISH

ELECTRICAL:
PRIMARY: 208 VAC 3Ø 400CPS
INSULATION TEST VOLTAGE: 15 KV

SECONDARY: 10 K VDC @ 4A FROM 3Ø FNB

MECHANICAL:
CASE: OPEN FRAME
FINISH: TMC SPEC S115 SMOOTH GRAY ENAMEL
DIMENSIONS: SHOWN PICTORIALY
TERMINALS:
PRIMARY: LUGS
SECONDARY: SOLDER TERM

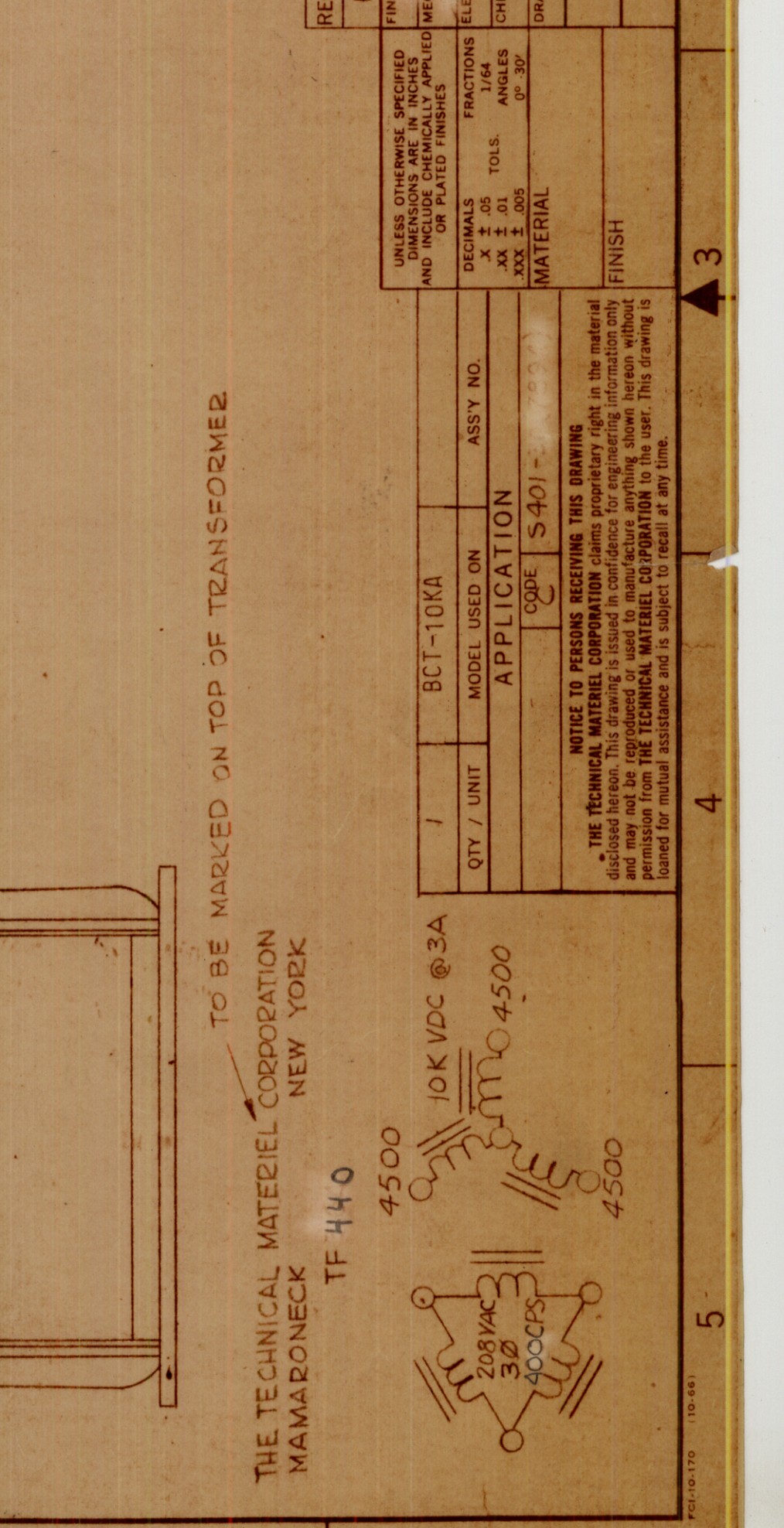
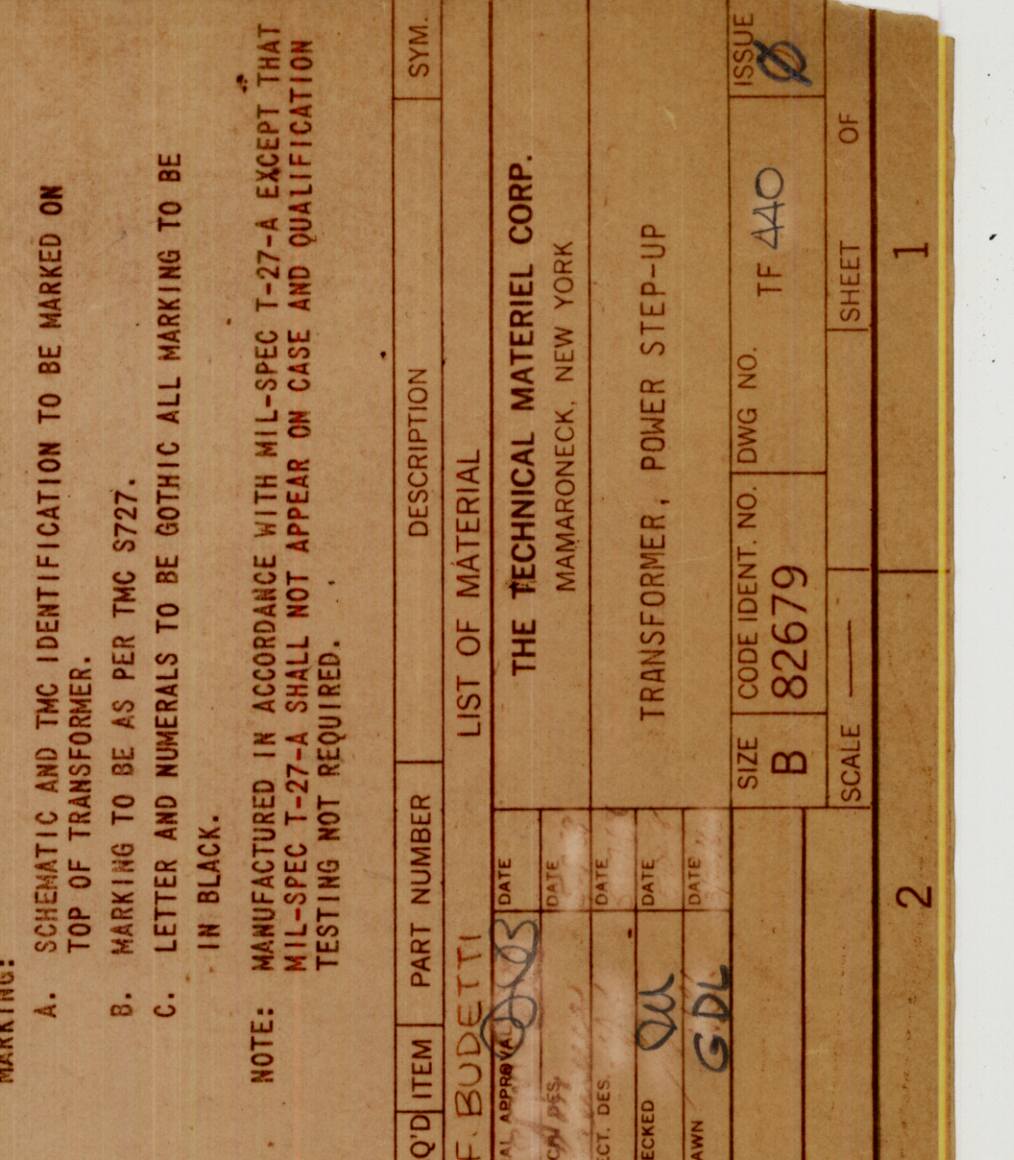
MARKING:
A. SCHEMATIC AND TMC IDENTIFICATION TO BE MARKED ON TOP OF TRANSFORMER.
B. MARKING TO BE AS PER TMC S727.
C. LETTER AND NUMERALS TO BE GOTHIC ALL MARKING TO BE IN BLACK.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A EXCEPT THAT MIL-SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING NOT REQUIRED.

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

TRANSFORMER, POWER STEP-UP

SIZE: B
CODE IDENT. NO.: 82679
DWG NO.: TF 440
SHEET: 1 OF 1



REVISIONS

DESCRIPTION

DATE

E.M.N. NO.

DRAFT

CHKD

APPD

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS
X ± .05 TOLS. 1/64
.XX ± .01 ANGLES 0° 30'

MATERIAL

FINISH

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

TRANSFORMER, POWER STEP-UP

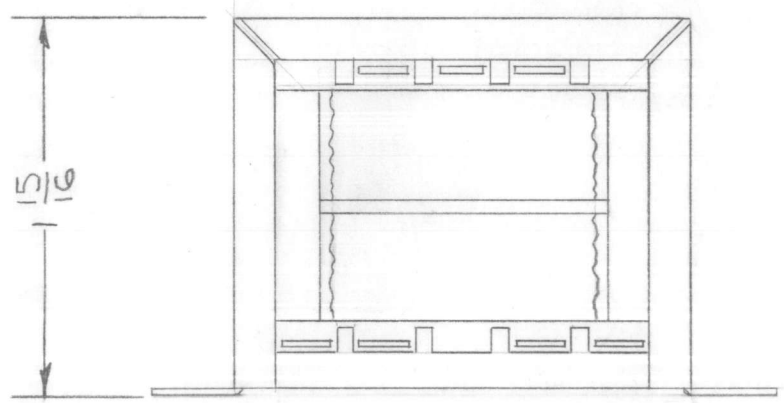
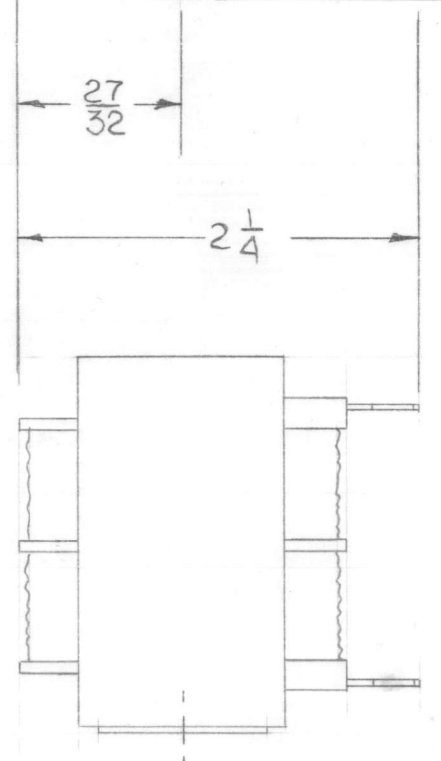
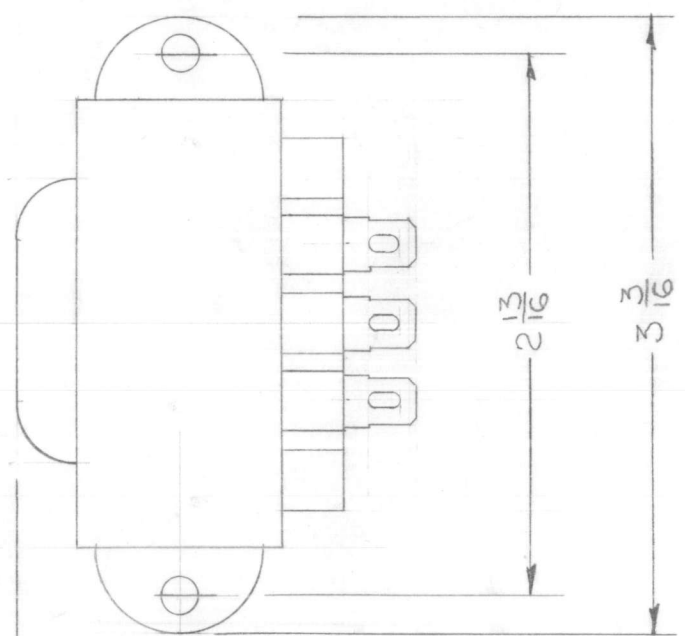
SIZE: B
CODE IDENT. NO.: 82679
DWG NO.: TF 440
SHEET: 1 OF 1



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REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
4	PH	W/B		Ø	ORIGINAL RELEASE FOR PRODUCTION	6-5-78	*

NOTE:
ALL DIMENSIONS ARE FOR
REFERENCE ONLY



SPECIFICATIONS
 PRIMARY VOLTAGE: 115 / 230
 SECONDARY VOLTAGE: 24V C.T.
 SECONDARY CURRENT: 1.25 amp.
 MFG. P/N: DP 241-6-24

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER, POWER				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 441		
SCALE FULL			SHEET	OF

I	CHG -R		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	FINAL APPROVAL	DATE	
I	MMX()-2B			* JPB	6/2/78	
QTY / UNIT	MODEL USED ON	ASS'Y NO.	DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	FRACTIONS 1/64 ANGLES 0° -30'	ELECT. DES.	DATE
APPLICATION						
S401- 455	CODE		MATERIAL	DRAWN	DATE	
NOTICE TO PERSONS RECEIVING THIS DRAWING THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.			FINISH	PH	12-1-77	

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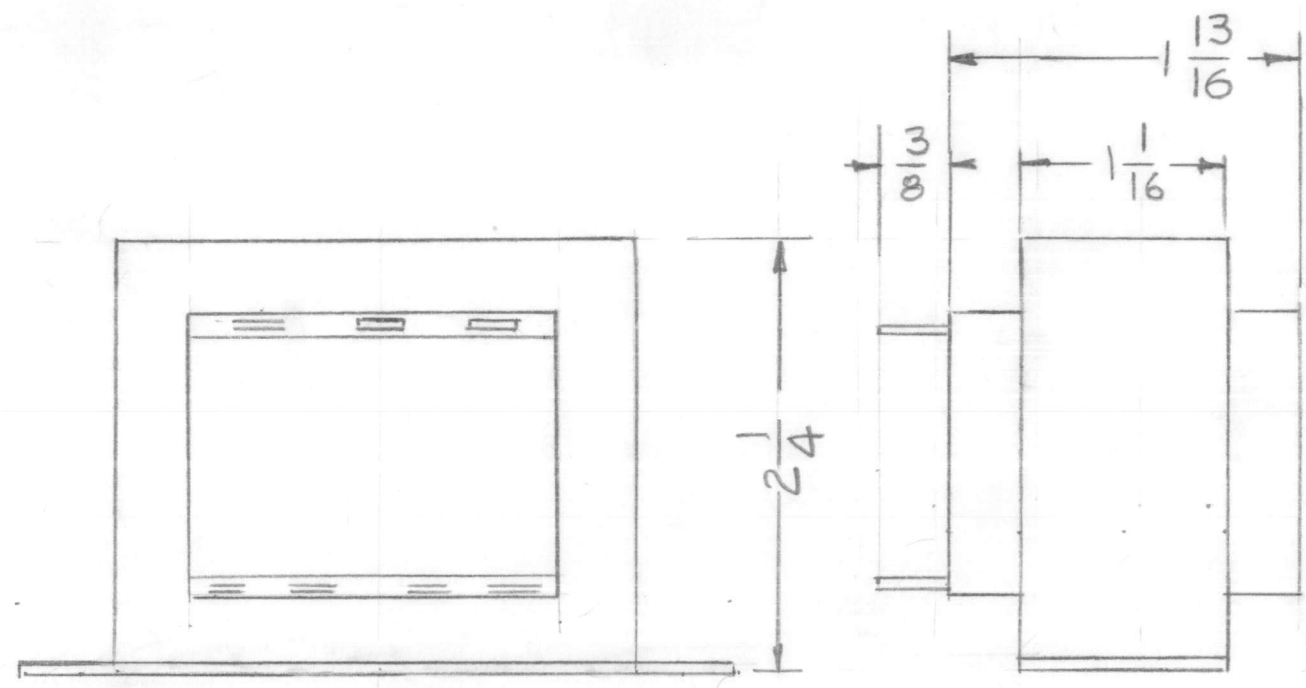
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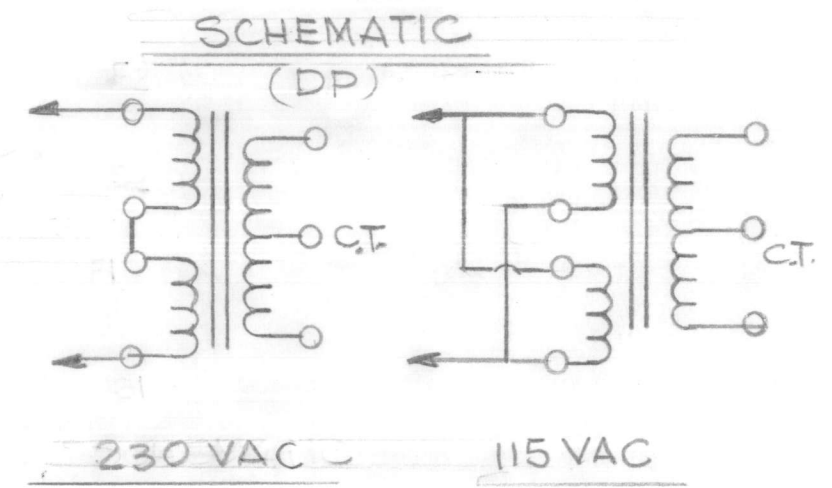
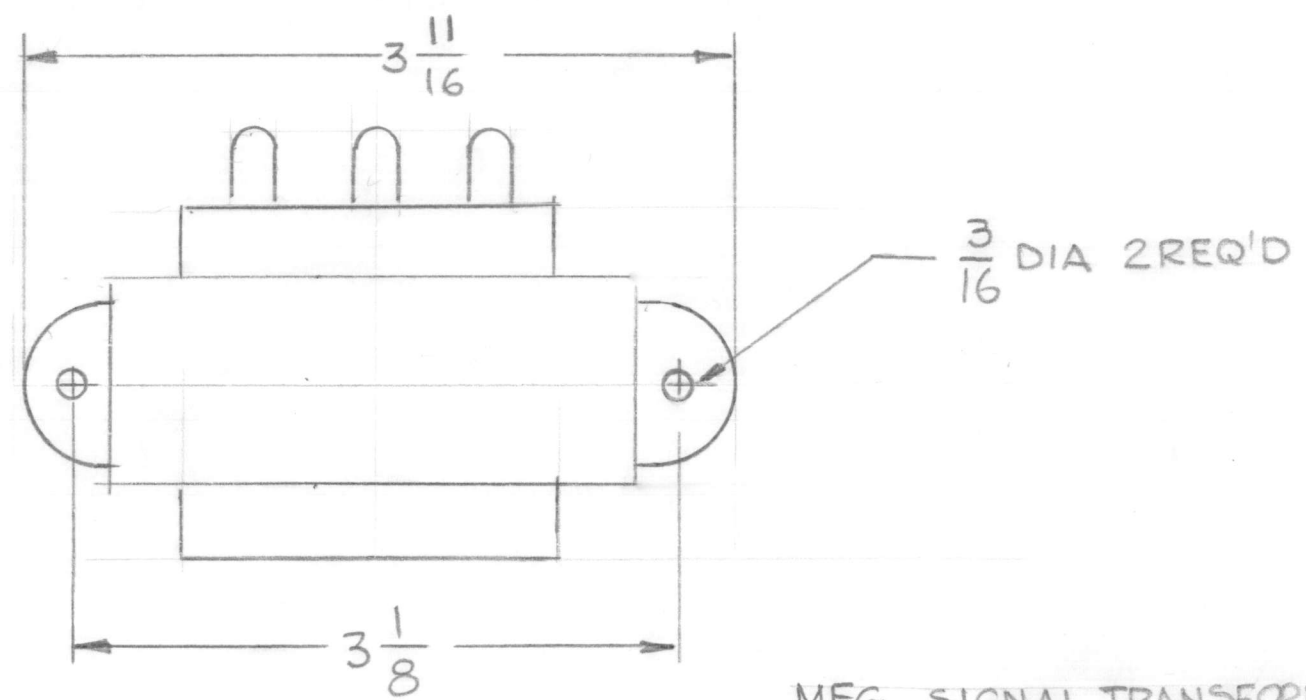
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REVISIONS						
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE
		dw		Ø	ORIGINAL RELEASE	5-8-80



SPECIFICATIONS

PRIMARY : 115/230 VAC
 SECONDARY: 10 V C.T. & 1.5A



MFG. SIGNAL TRANSFORMER CO.
 CAT-G3 P/NO DP 241-7-10

QTY / UNIT	MODEL USED ON	ASS'Y NO.
	DPC-10	
APPLICATION		
	CODE	

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	FINAL APPROVAL	DATE
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	MECH. DES. <i>G.B.</i>	DATE
FRACTIONS 1/64		DATE
TOLS. ANGLES 0° -30'		DATE
MATERIAL	DRAWN	DATE
	<i>G.D.L.</i>	5-7-80

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER, POWER				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 442	Ø	
SCALE	1:1	SHEET	OF	

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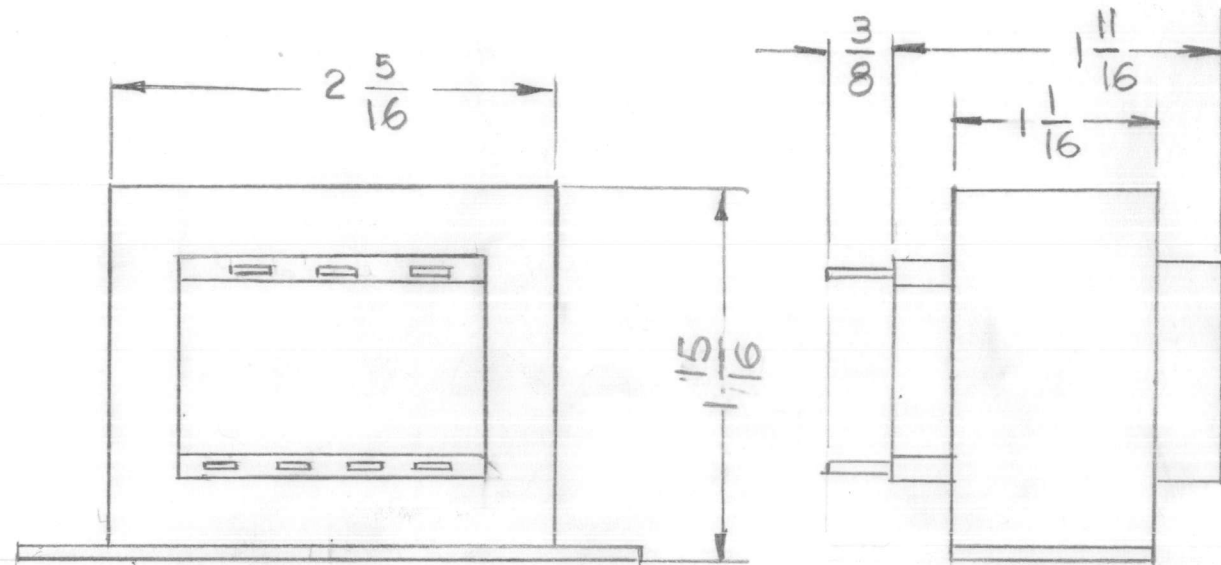
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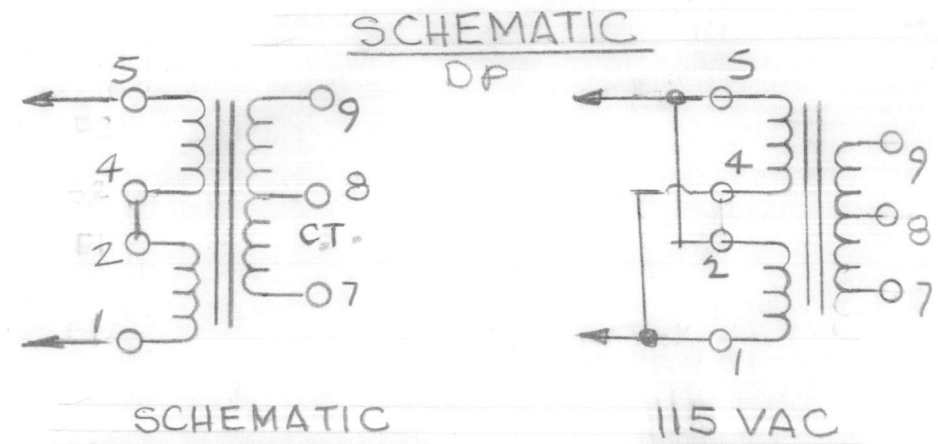
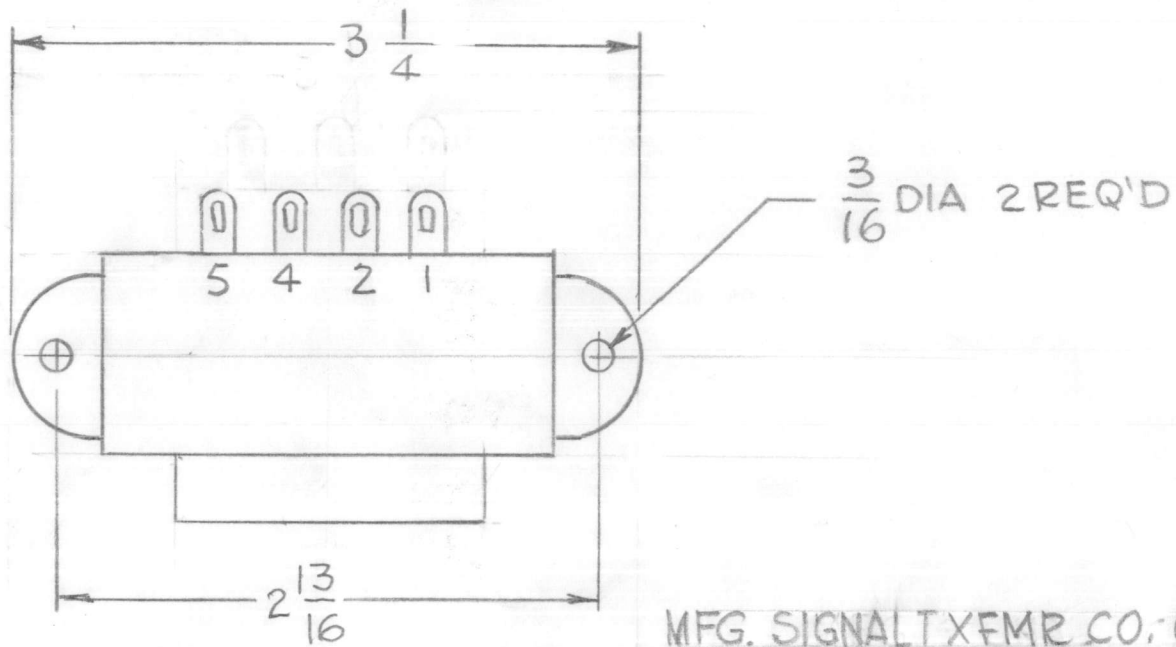
REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
		dw		Ø	ORIGINAL RELEASE	5-8-80	



SPECIFICATIONS:

PRIMARY: 115/230 VAC

SECONDARY: RMS RATING 28V C.T & 1.1A



MFG. SIGNAL TXFMR CO.; CATAL-G3 P/N 241-6-28
P/NO. DP 241-6-28

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
-------	------	-------------	-------------	------

LIST OF MATERIAL

1	DPC-10	
1	AMC-21C	
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
	CODE	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	FINAL APPROVAL G.D.L.	DATE 5/8/80
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	FRACTIONS 1/64 ANGLES 0° .30'	TOLS.
MATERIAL	DRAWN G.D.L.	DATE 5-6-80
FINISH		

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

TRANSFOR, POWER

NOTICE TO PERSONS RECEIVING THIS DRAWING
THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed herein. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

SIZE B	CODE IDENT. NO. 82679	DWG NO. TF 443	ISSUE Ø
SCALE 1:1	SHEET		OF

5

4

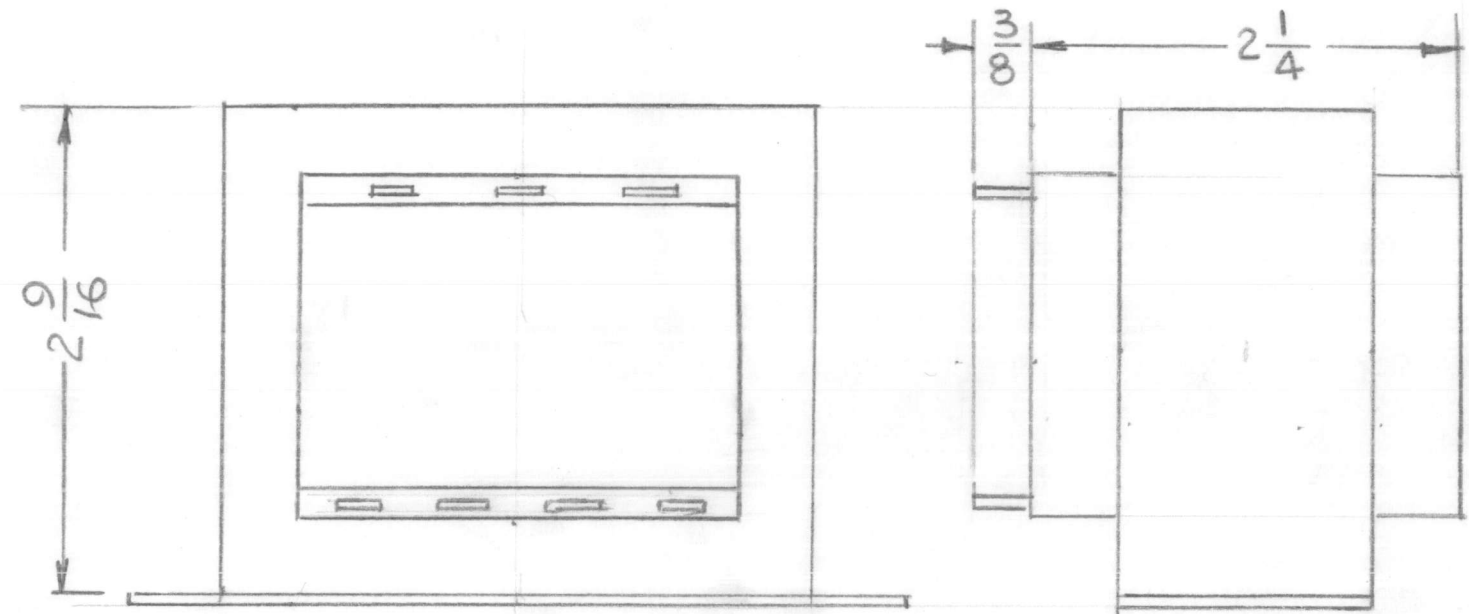
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REVISIONS

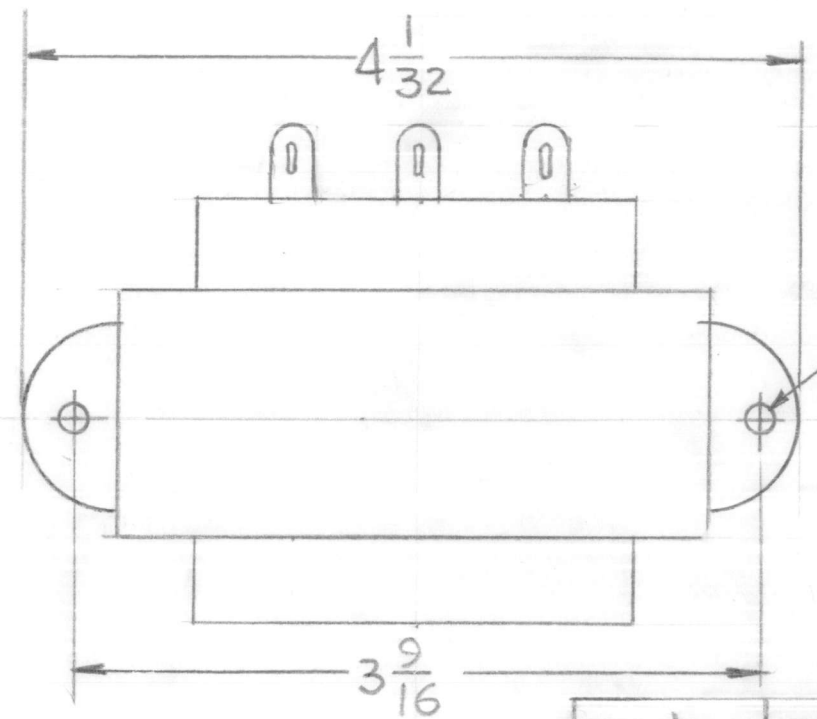
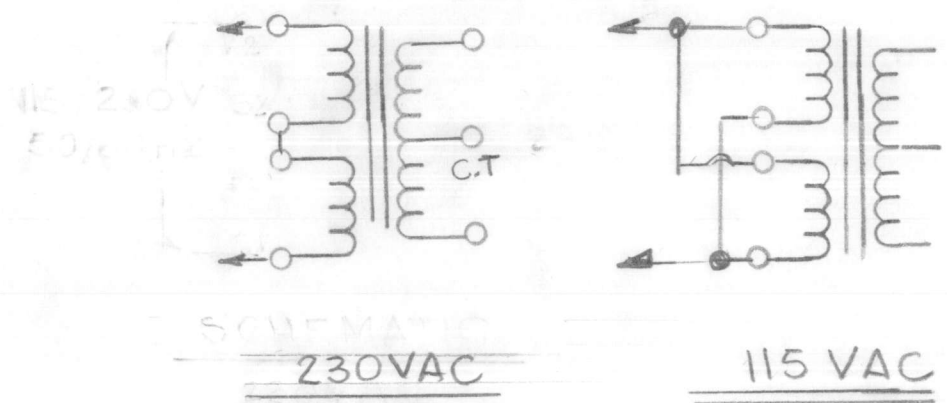
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
21801	GDL	dw		A	CHANGE FROM "A" SIZE DWG TO "B" SIZE PICTORIAL ADDED	5-7-80	



SPECIFICATIONS:

PRIMARY: 115/230 VAC
 SECONDARY: 28V C.T. @ 3.6A

SCHEMATIC DP



3/16 DIA. 2 REQ'D

MFG - SIGNAL XFMR CO. CAT. G3
 P/NO. DP 241-8-28

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
-------	------	-------------	-------------	------

LIST OF MATERIAL

1	AMC-32A	
1	SME-5	
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
	CODE	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	FINAL APPROVAL	DATE
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	MECH. DES.	DATE
FRACTIONS 1/64 ANGLES 0° -30'	ELECT. DES.	DATE
MATERIAL	CHECKED	DATE
FINISH	DRAWN	DATE

THE TECHNICAL MATERIEL CORP.
 MAMARONECK, NEW YORK

TRANSFORMER, PWR

SIZE	CODE IDENT. NO.	DWG NO.	ISSUE
B	82679	TF 445	A

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SCALE	SHEET	OF
1:1		

5

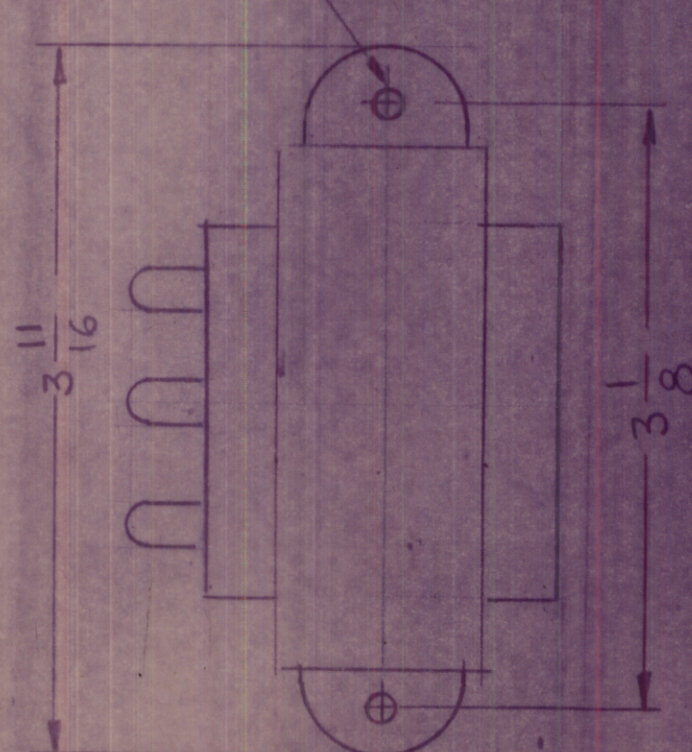
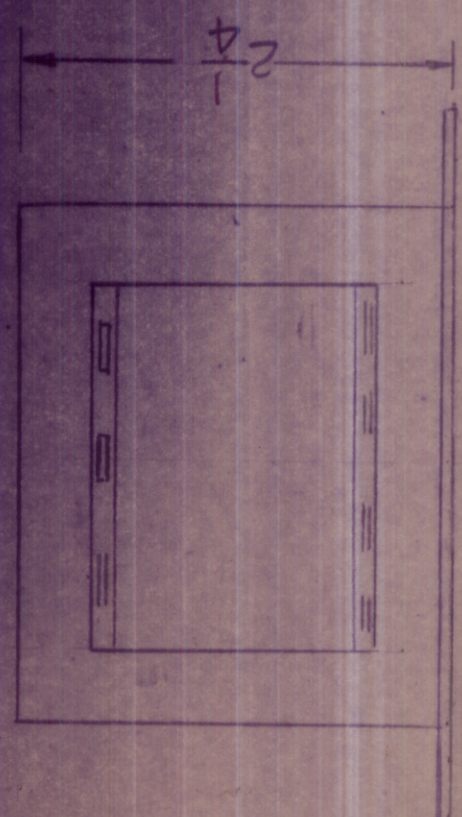
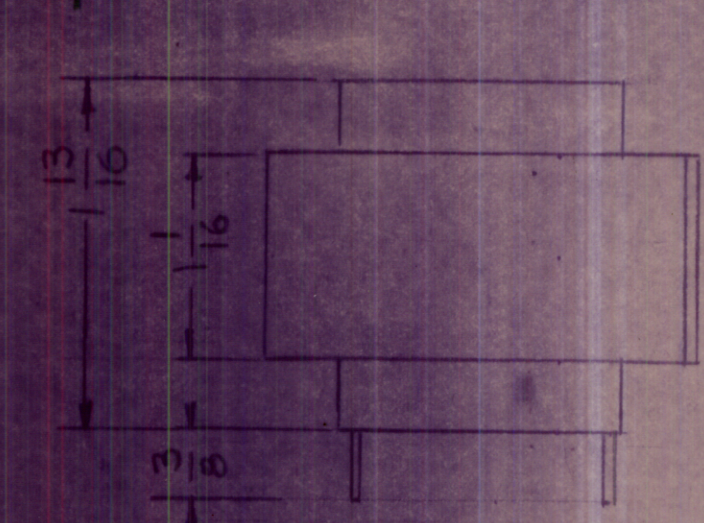
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REVISIONS		DATE		APPROVED	
DESCRIPTION	DATE	APPROVED	DATE	APPROVED	DATE

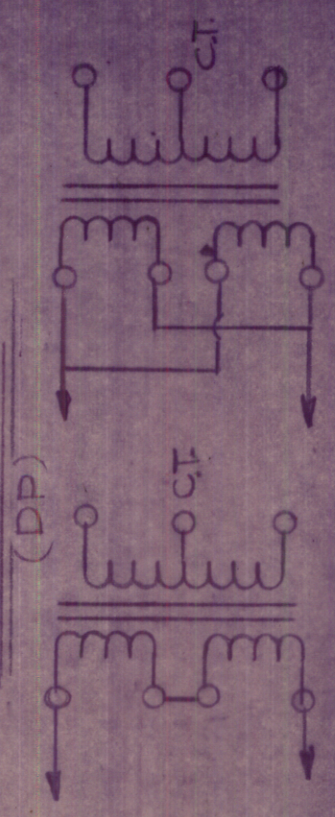


$\frac{3}{16}$ DIA 2 REQ'D

SPECIFICATIONS

PRIMARY : 115/230 VAC
 SECONDARY: 36V C.T. & 1.5A

SCHEMATIC



230 VAC 115 VAC

MFG. SIGNAL TRANSFORMER CO.
 CAT-G3 P/NO DP 241-7-36

REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL			
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
TRANSFORMER, POWER			
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE
B	82679	TF 446	X
SCALE	1:1	SHEET	OF
		1	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHAMFERED EDGES OR FLAT FINISHES	DATE
DECIMALS	DATE
X ± .05	DATE
.XX ± .01	DATE
.XXX ± .005	DATE
FRACTIONS	DATE
1/24	DATE
ANGLES	DATE
Ø .30'	DATE
MATERIAL	DATE
FINISH	DATE

QTY / UNIT	MODEL USED ON	ASSY NO.
	APPLICATION	
	CODE	

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REVISIONS

ZONE	LTR	DESCRIPTION	DATE	E.M.N.O	CHK	APPD
	X	EXP. RELEASE				

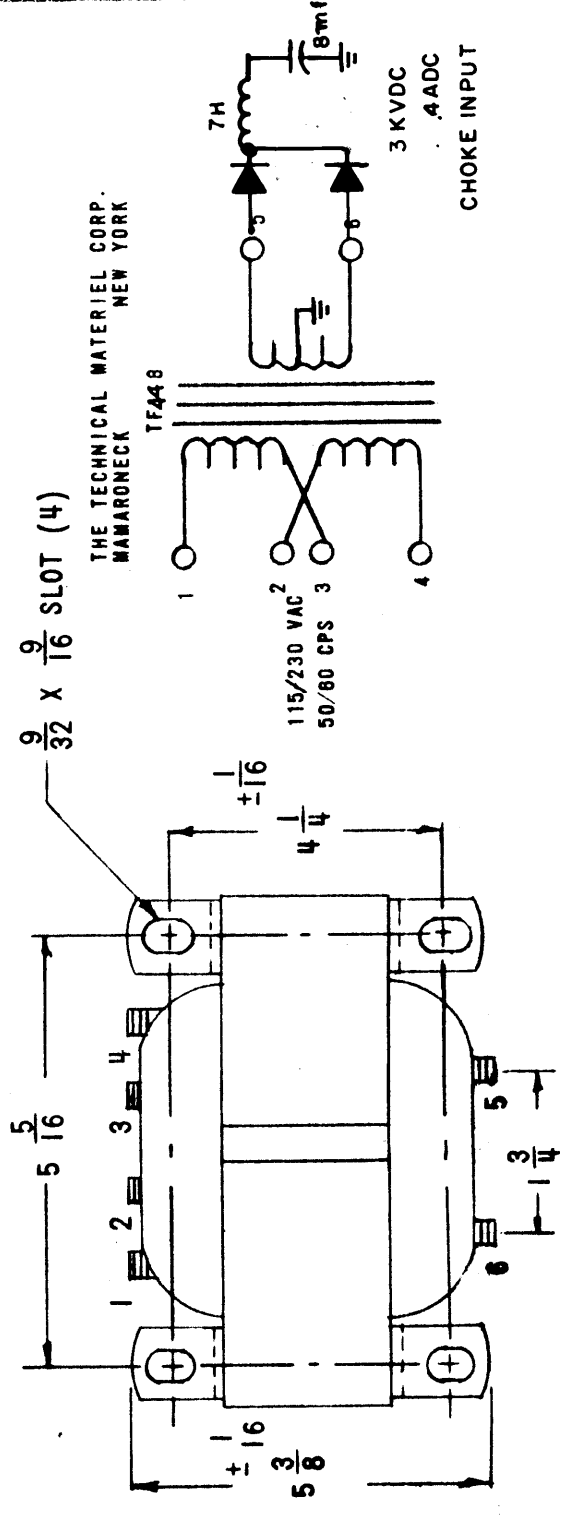
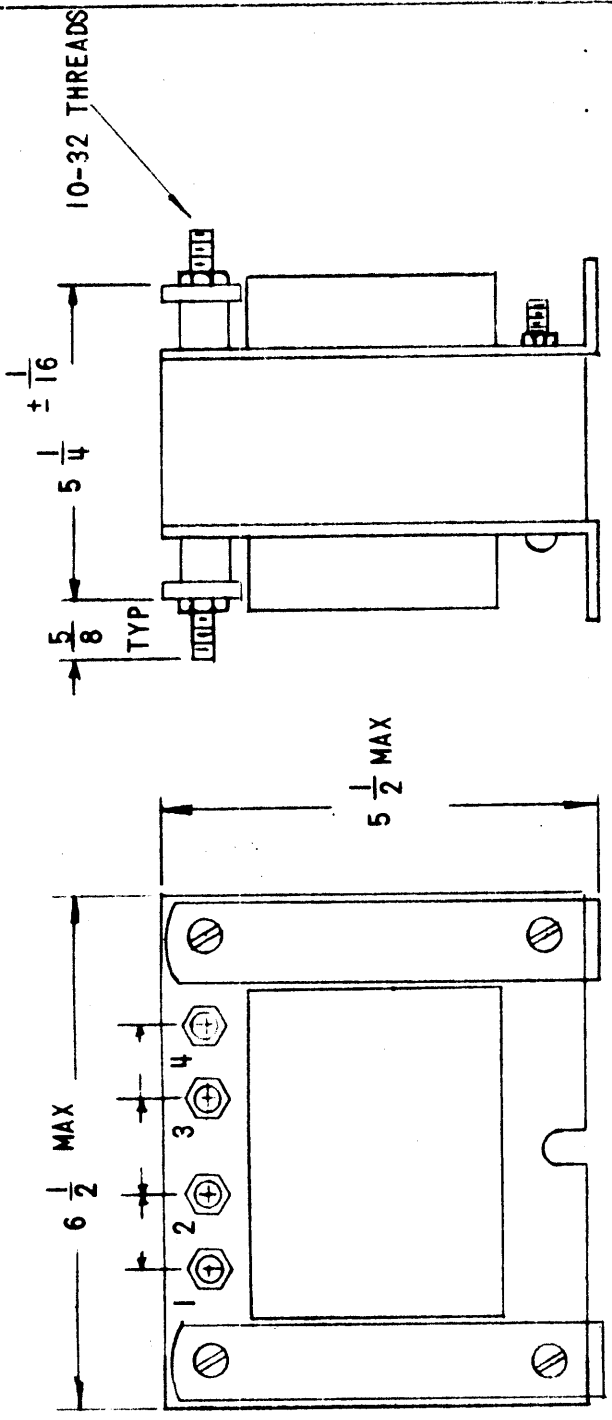
SPECIFICATIONS

ELECTRICAL:
 PRIMARY WINDING
 VOLTAGE: 115/230 VAC
 FREQUENCY: 50/60 CPS
 SECONDARY WINDING
 VOLTAGE: INTO FULL WAVE RECTIFIER 3KVDC .4ADC
 PHASE: SINGLE
 INSULATION TEST VOLTAGE: 6000 VRMS

MECHANICAL:
 CASE: OPEN FRAME
 FINISH: BLACK MATT
 EXCEPT TERMINALS
 DIMENSIONS: SHOWN PICTORIALLY
 TERMINALS: 10-32 THREADS
 TOLERANCE RANGE: ±1/32 UNLESS OTHERWISE SPECIFIED

STAMPING: ACCORDING TO TMC SPEC S727 WHITE GOTHIC LETTERING AND LINE WORK SCHEMATIC TO BE PLACED AS SHOWN

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A, EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING NOT REQUIRED.



REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
F. BUDETTI				
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER, POWER STEP-UP				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 448	X	
SCALE			SHEET	OF
				1

FINAL APPROVAL	DATE
F. BUDETTI	
MECH. DES.	DATE
ELECT. DES.	DATE
CHECKED	DATE
DRAWN	DATE
G. D. L.	8-5-61

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	FRACTIONS	DECIMALS	TOLS.	ANGLES
	1/64	± .06		
		.XX ± .01		
		.XXX ± .005		0°-30°

MATERIAL

FINISH

QTY / UNIT	MODEL USED ON	ASSY NO.
	LPA-5	
APPLICATION		
	CODE	S401-30 (BCT#7849)

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REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
21890	RU	RU			REDRAWN & CLARIFIED ON (B) SIZE	8-28-81	

TMC PART NO.	Part No.	Size	SECONDARY*		USED ON
			Series	Parallel	
TF447 - TF447-2	LP 16-700	12	16V C.T. @ 700MA	8V @ 1.4A	AMC-8A
	LP 16-350	6	16V C.T. @ 350 MA	8V @ 700MA	
	LP 12-450	6	12.6V C.T. @ 450MA	6.3V @ 900MA	
	LP 12-900	12	12.6V C.T. @ 900MA	6.3V @ 1.8A	
	LP 10-600	6	10V C.T. @ 600MA	5V @ 1.2A	
	LP 10-1200	12	10V C.T. @ 1200MA	5V @ 2.4A	
	LP 20-300	6	20V C.T. @ 300MA	10V @ 600MA	
	LP 20-600	12	20V C.T. @ 600MA	10V @ 1.2A	
	LP 24-250	6	24V C.T. @ 250MA	12V @ 500MA	
	LP 24-500	12	24V C.T. @ 500MA	12V @ 1A	
	LP 34-170	6	34V C.T. @ 170MA	17V @ 340MA	
	LP 34-340	12	34V C.T. @ 340MA	17V @ 680MA	
	LP 40-150	6	40V C.T. @ 150MA	20V @ 300MA	
	LP 40-300	12	40V C.T. @ 300MA	20V @ 600MA	
	LP 56-100	6	56V C.T. @ 100MA	28V @ 200MA	
	LP 56-200	12	56V C.T. @ 200MA	28V @ 400MA	
	LP 88-65	6	88V C.T. @ 65MA	44V @ 130MA	
	LP 88-130	12	88V C.T. @ 130MA	44V @ 260MA	
	LP 120-50	6	120V C.T. @ 50MA	60V @ 100MA	
	LP 120-100	12	120V C.T. @ 100MA	60V @ 200MA	
LP 230-25	6	230V C.T. @ 25MA	115V @ 50MA		
LP 230-50	12	230V C.T. @ 50MA	115V @ 100MA		

* Regulation of Size 6 units is 30%, i.e., no load-secondary voltage is 30% higher than full load.
Regulation of Size 12 units is 20%.



FOR PRINTED CIRCUIT APPLICATIONS
2 SIZES — 6VA — 0.850 inches high
12VA — 1.065 inches high

LOW PROFILE: Allows 1 inch card spacing for 6va units or 1 1/4 inch card spacing for 12va units.

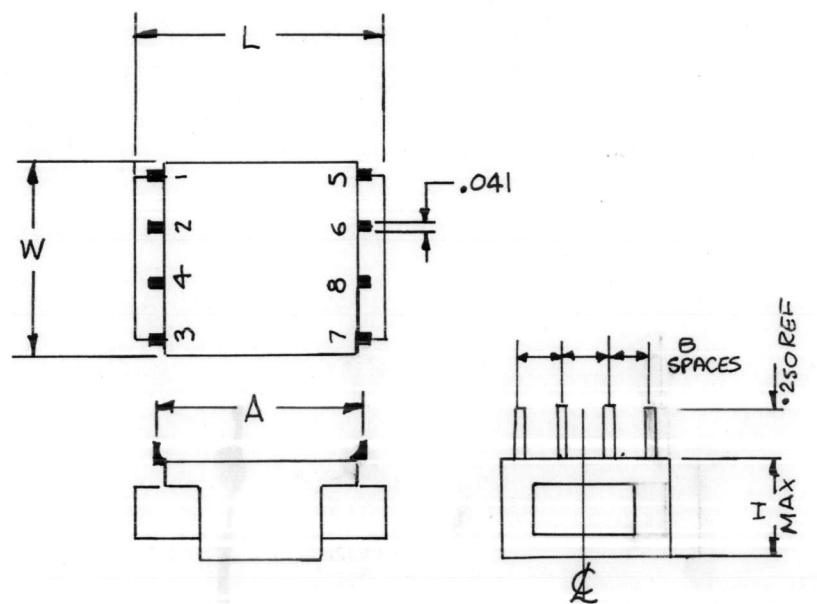
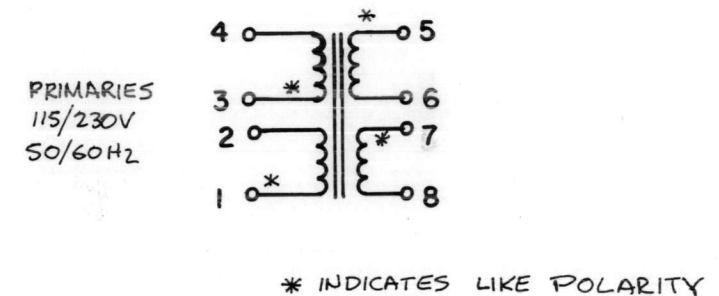
DUAL PRIMARIES: 115/230v, 50/60 Hz.

NON-CONCENTRIC WINDING: Where secondary is wound alongside primary rather than directly over it. This added isolation reduces inter-winding capacitance and eliminates the need for an electro-static shield.

1500V. RMS HIPOT: Is standard because of the advantage of non-concentric windings.

HUM-BUCKING CONSTRUCTION: (Semi-toroidal) results in reduced radiated magnetic field and balanced windings.

The LP line of transformers is ideal for low height, critical pc board power applications in semi-conductor control and instrumentation. They are used extensively in single or dual output dc supplies and isolated control circuit and reference supplies.



SIZE	L	W	H	A	B	Oz
6	1 7/8	1 9/16	.850	1.600	.375	7
12	2 1/2	2	1.065	2.000	.500	11

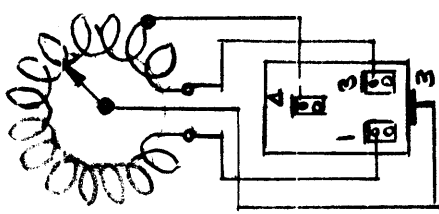
2	AMC-8A	A5782
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
CODE	S401-SIGNAL TRANSFORMER	
NOTICE TO PERSONS RECEIVING THIS DRAWING THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.		
FINISH		

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER POWER				
FINAL APPROVAL	DATE	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
MECH. DES.	DATE	TRANSFORMER POWER		
ELECT. DES.	DATE	TRANSFORMER POWER		
CHECKED	DATE	TRANSFORMER POWER		
DRAWN	DATE	TRANSFORMER POWER		
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF447	A	
SCALE	SHEET		OF	

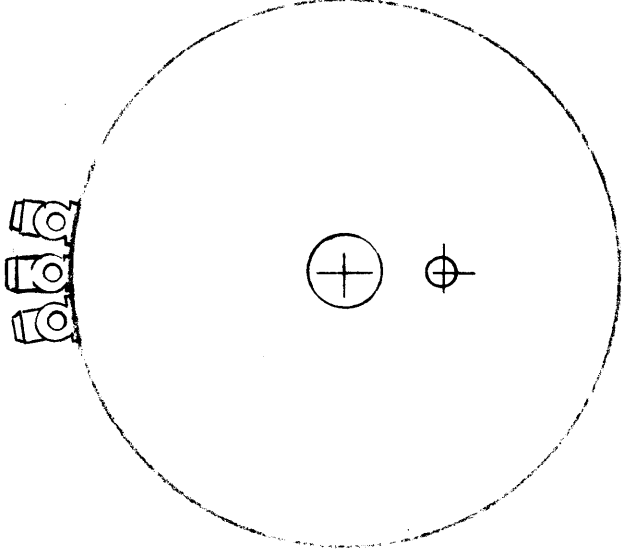
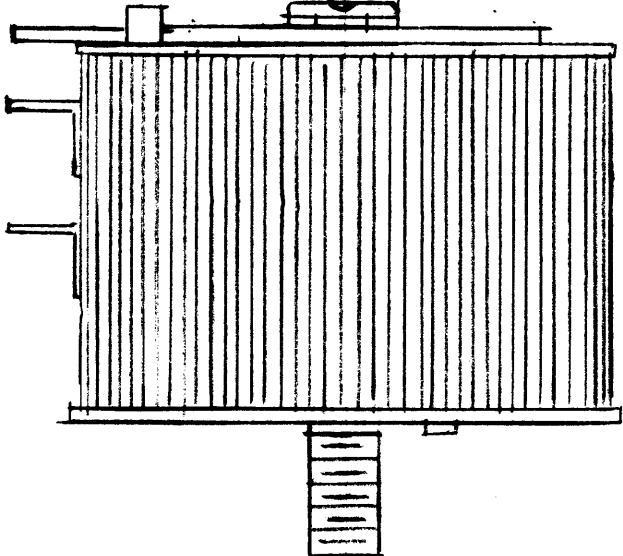
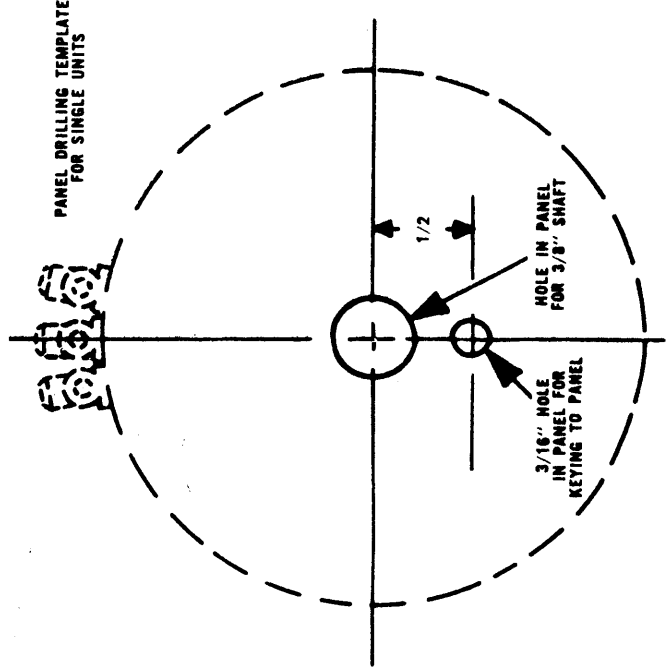
5 4 3 2 1

E.M.N. NO.		DRAFT		CHKD	ZONE	LTR	REVISIONS		DATE	APPROVED
							DESCRIPTION			

SCHEMATIC



TYPE	INPUT VOLTAGE	FREQUENCY (CYCLES)	OUTPUT		CONSTANT CURRENT IMPEDANCE		CONSTANT VOLTAGE		TERMINALS		
			VOLTS	AMPS	MAX. AMP.	MAX. VOLT.	MAX. AMP.	MAX. VOLT.	INPUT	JUMPER	OUTPUT
12	240	50 60	0.240	0.71*	0.17	0.9**	0.22		1-2		1-3
			0.294	0.5	0.33				1-2	1-4	2-3
											1-3



MFG. THE SUPERIOR ELECTRIC COMP.
BRISTOL, CONN.

QTY / UNIT		MODEL USED ON	ASSY NO.
APPLICATION		CODE	
<p>NOTICE TO PERSONS RECEIVING THIS DRAWING THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.</p>			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		FRACTIONS 1/64	
DECIMALS X ± .05		TOLS. ANGLES	
.XX ± .01		° ± .30'	
.XXX ± .005		MATERIAL	
MATERIAL		FINISH	
REQ'D ITEM		PART NUMBER	DESCRIPTION
FINAL APPROVAL		DATE	DATE
MECH. DES.		DATE	DATE
ELECT. DES.		DATE	DATE
CHECKED		DATE	DATE
DRAWN		GDL	5-31-83
LIST OF MATERIAL		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
VARIABLE TRANSFORMER		SIZE	CODE IDENT. NO. DWG NO.
B		82679	TF 450
SCALE 1:1		SHEET	OF
1		2	1

D C B A

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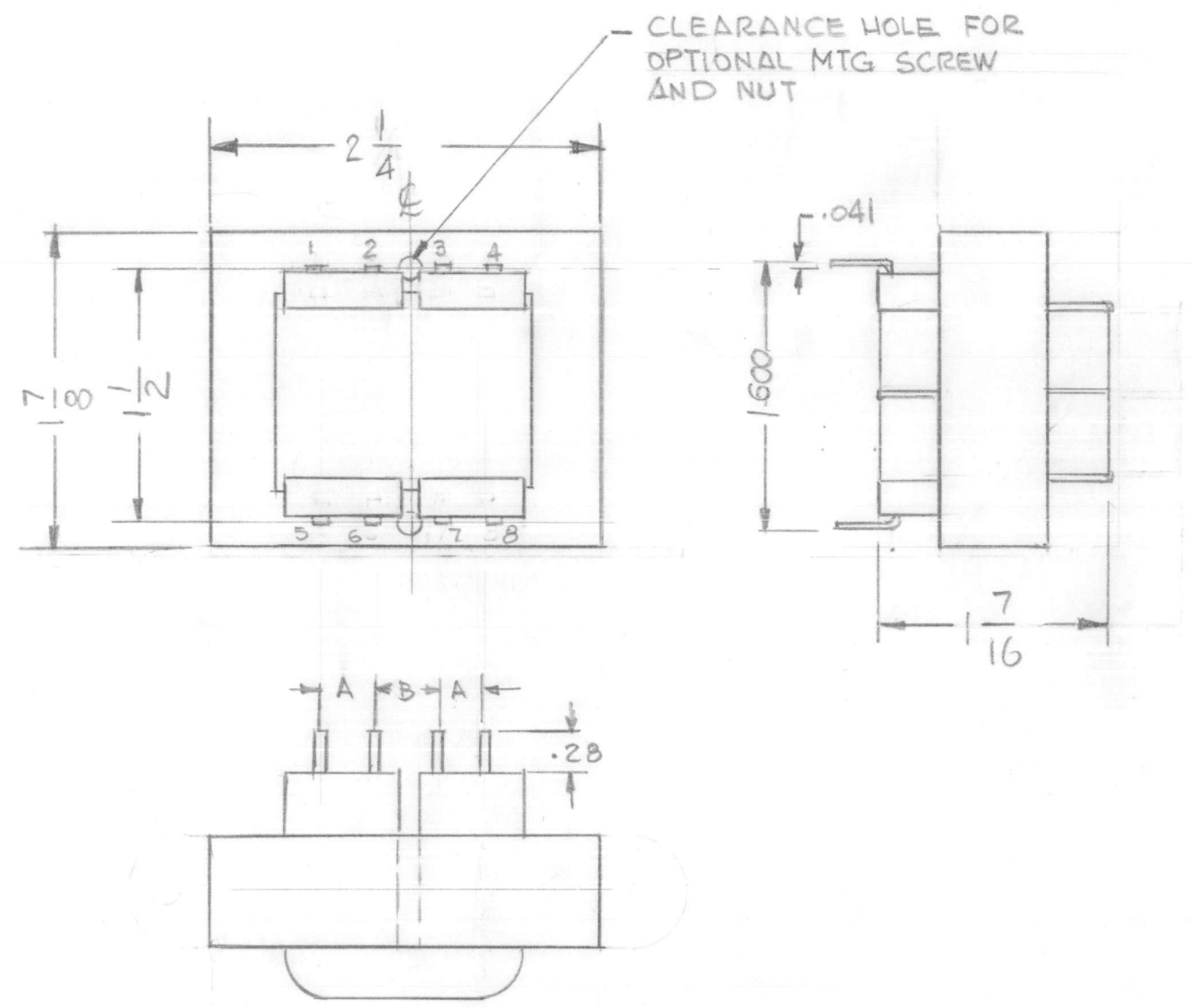
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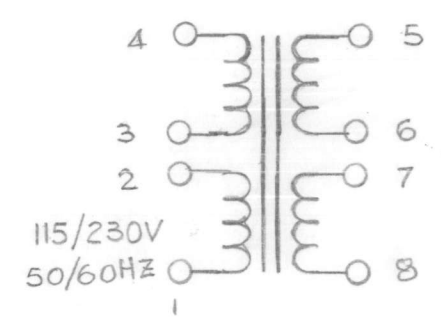
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1

REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
					ORIGINAL RELEASE FOR PRODUCTION	9-17-84	



ELECTRICAL SPEC'S
 PRIMARY : 150/230V.
 SECONDARY: SERIES PARALLEL
 48VCT@.04A 24V@ 0.8A



SCHEMATIC DIAGRAM

QTY / UNIT	MODEL USED ON	ASS'Y NO.	REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
1	AZ102						
APPLICATION			LIST OF MATERIAL				
CODE C 540-530			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
MATERIAL			FINAL APPROVAL	DATE	TRANSFORMER, POWER		
FINISH			MECH. DES.	DATE			
NOTICE TO PERSONS RECEIVING THIS DRAWING			ELECT. DES.	DATE			
THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.			CHECKED	DATE			
			DRAWN	DATE			
			SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
			B	82679	TF 452	Q	
			SCALE	1:1	SHEET	OF	

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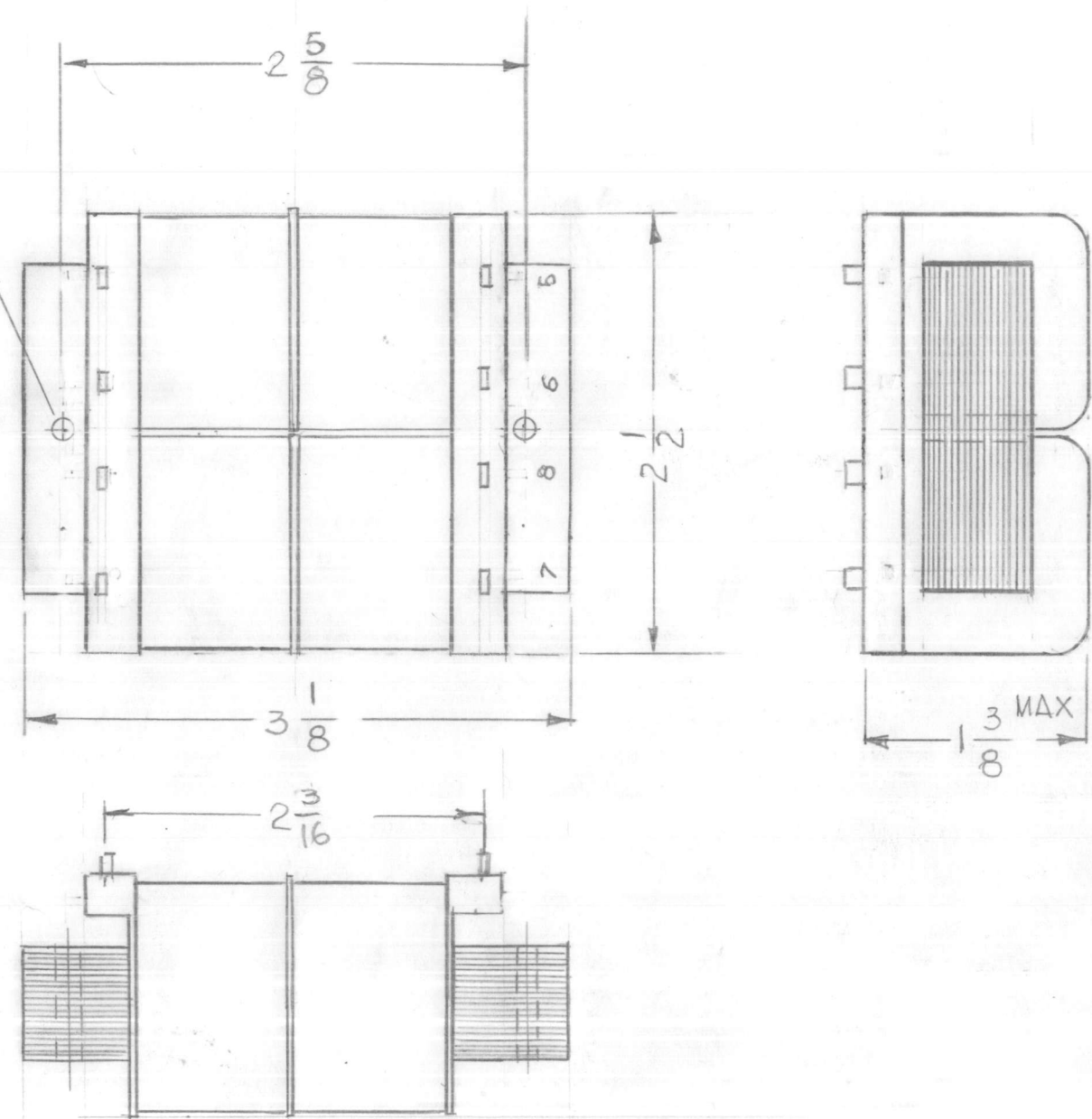
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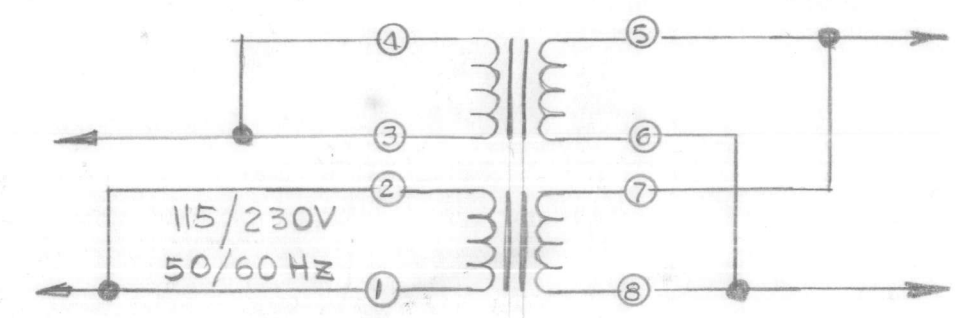
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REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	GDL			Δ	REVISE & UPDATED	8-28-91	

CLEARANCE FOR #6 SCREW



- ELECTRICAL SPEC'S -
 PRIMARY 115/230V
 SECONDRY 56V C.T @ 850MA
 PARALLEL 28V@



SCHEMATIC DIAGRAM.

REF: SIGNAL CAT. G-8 LP 56-850
 FLATHEAD PLUG S125

QTY / UNIT	MODEL USED ON	ASS'Y NO.
1	AMC-8	
APPLICATION		
	CODE	3401 -

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS
 .X ± .05
 .XX ± .01
 .XXX ± .005

FRACTIONS
 1/64
 ANGLES
 0° -30'

TOLS.

MATERIAL

FINISH

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER, POWER				
FINAL APPROVAL <i>GDL</i>		DATE		
MECH. DES.		DATE		
ELECT. DES.		DATE		
CHECKED		DATE		
DRAWN G.D.L.		DATE 8-27-91		
SIZE B	CODE IDENT. NO. 82679	DWG NO. TF 453	ISSUE A	
SCALE 1:1	SHEET		OF	

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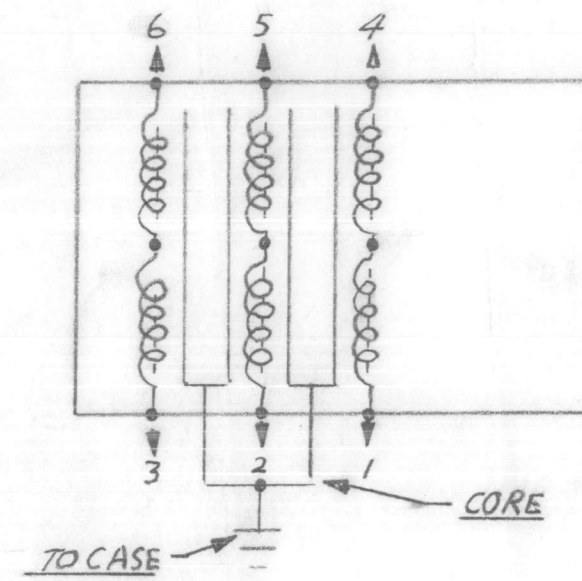
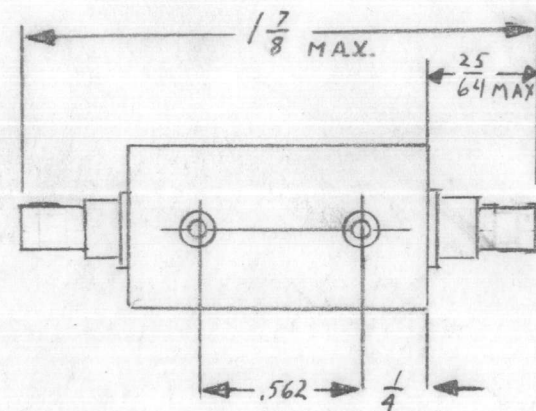
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1

REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED



BOARD DRAWING NO
776162

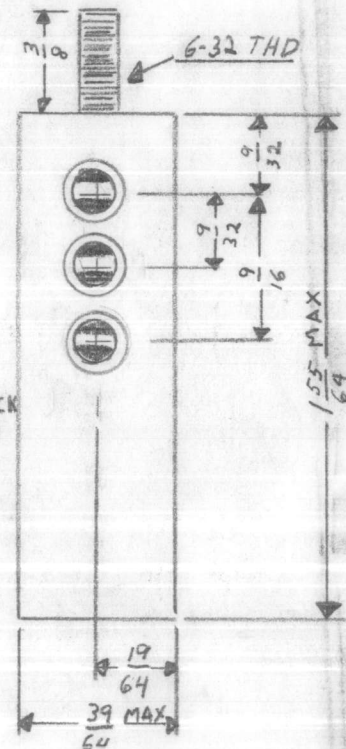
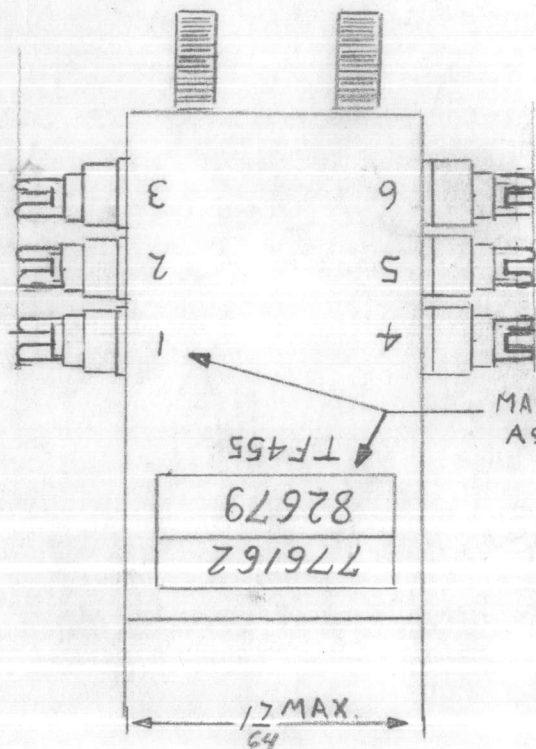


FIG. 1

QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
CODE		

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	FINAL APPROVAL <i>JB</i>	DATE <i>8/7/86</i>
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	MECH. DES. <i>AW</i>	DATE <i>3/7/86</i>
FRACTIONS 1/64 ANGLES 0° - 30'	ELECT. DES. <i>SDM</i>	DATE <i>3/7/86</i>
MATERIAL	CHECKED	DATE
FINISH	DRAWN <i>AW</i>	DATE <i>3-7-86</i>

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER, PULSE TF-455				
SIZE B	CODE IDENT. NO. 82679	ISSUE TF-455	ISSUE φ	
SCALE			SHEET 1 OF 3	

5

4

3

2

1

REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED

FIG2 TEST SETUP 2

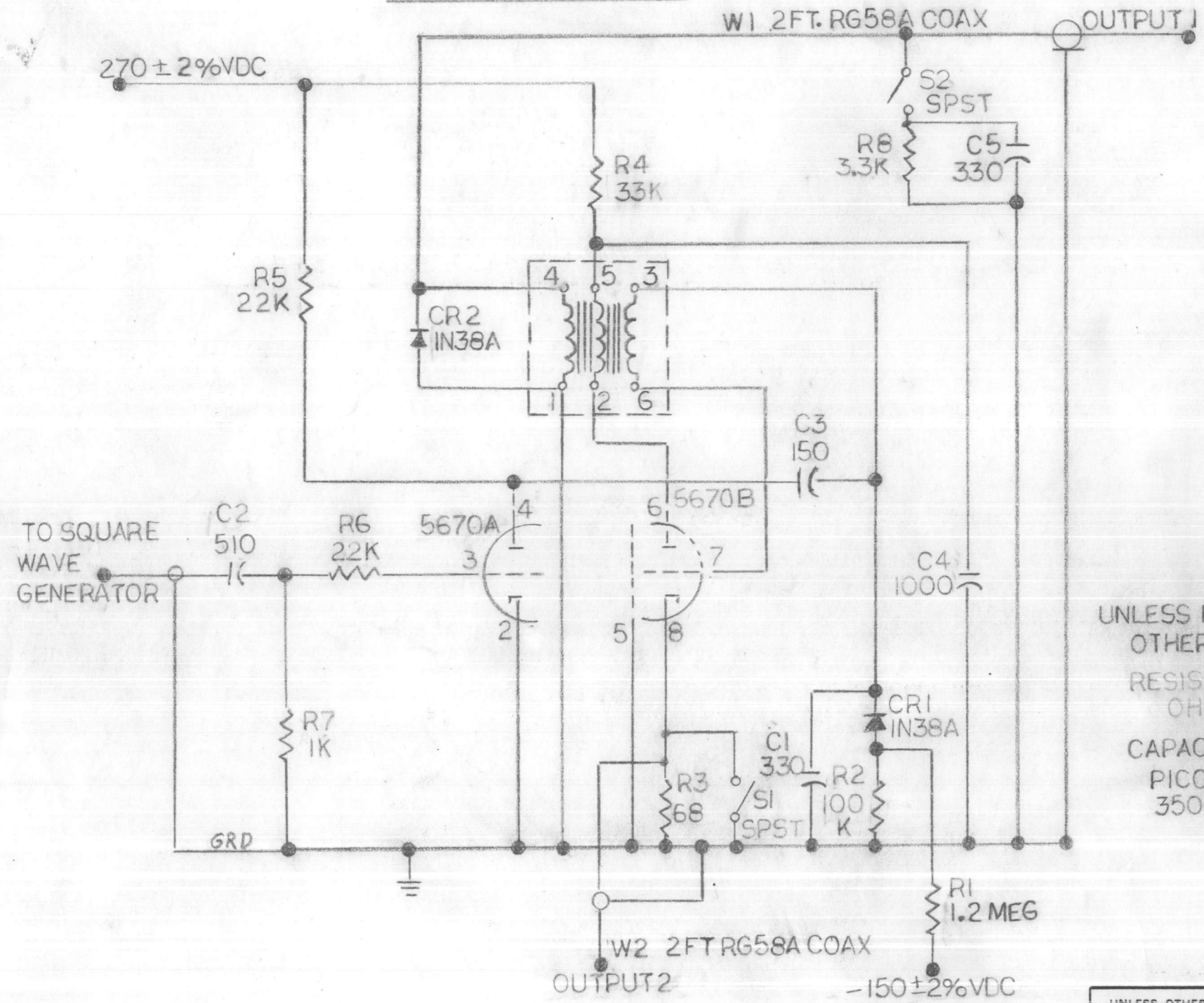
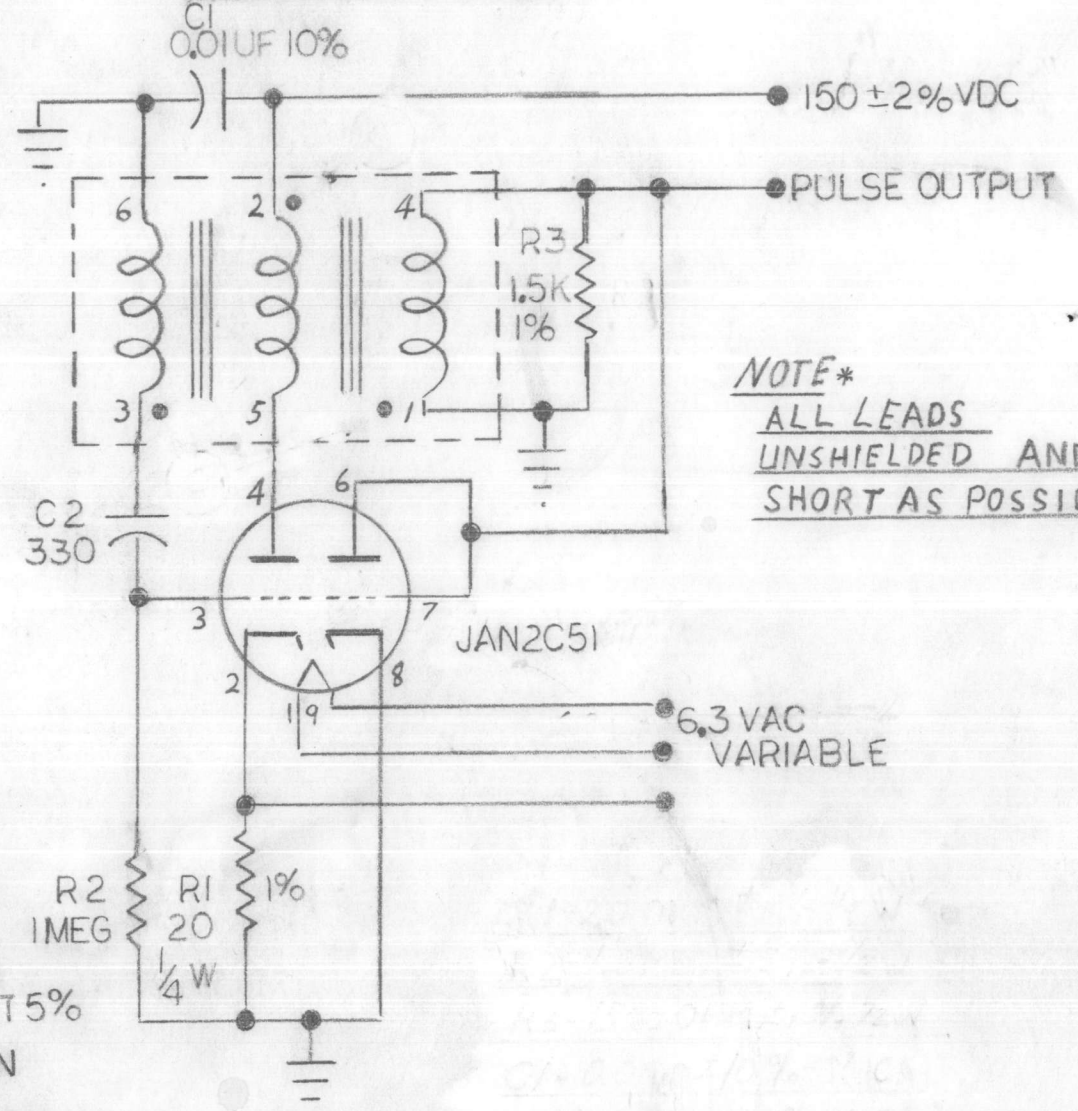


FIG3 TEST SETUP 1



UNLESS NOTED OTHERWISE
 RESISTANCE IN OHMS 1/4 WATT 5%
 CAPACITANCE IN PICO FARADS 350 WV 5% MICA

QTY / UNIT	MODEL USED ON	ASS'Y NO.

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REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER, PULSE TF-455				
SIZE	CODE	IDENT. NO.	ISSUE	
B	82679	TF455	φ	
SCALE			SHEET 2 OF 4	

REVISIONS

E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
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1. GENERAL

1.1 THIS TRANSFORMER SHALL CONSIST OF 3 SEPERATE WINDINGS. THE TRANSFORMATION RATIO FROM ONE WINDING TO ANOTHER SHALL BE 1:1 TO WITHIN 2%.

2. OPERATING CONDITIONS

2.1 THE MAXIMUM INSTANTANEOUS VOLTAGE ACROSS ANY ONE WINDING WILL BE 180 VOLTS.

2.1 THE MAXIMUM PEAK CURRENT THROUGH ANY WINDING WILL BE 0.35 AMPERES.

2.3 THE MAXIMUM D-C CURRENT THROUGH ANY WINDING WILL BE 1 MILLIAMPERE.

3. ELECTRICAL REQUIREMENTS

3.1 TERMINALS 1, 2 AND 3 SHALL HAVE THE SAME POLARITY.

3.2 THE INDUCTANCE OF ANY WINDING AT 1,000 HERTZ SHALL MEASURE 2.0 MILLIHENRIES MINIMUM WITH THE OTHER WINDINGS OPEN CIRCUITED. THE VOLTAGE ACROSS THE WINDING UNDER TEST SHALL BE 0.05 +/-0.005 VOLTS RMS.

3.3 THE TRANSFORMER SHALL BE TESTED FOR DIELECTRIC STRENGTH IN ACCORDANCE WITH THE FOLLOWING TABLE:

 MIN. DIELECTRIC STRENGTH TEST VOLTAGES
 A.C. VOLTAGES-APPLY FOR NOT LESS THAN 5 SECONDS
 NOR MORE THAN 1 MINUTE.

TERMINAL	CASE	#3	#2
#1	1500	1500	1500
#2	1500	1500	--
#3	1500	--	--

3.4 THE PULSING PROPERTIES OF THE TRANSFORMER WILL BE TESTED WITH THE CIRCUIT SHOWN IN FIGURE 3, TEST SETUP #1. AN OSCILLOSCOPE OF THE PROPER PASS BAND, DEFLECTION SENSITIVITY AND SWEEP SPEEDS, SHALL BE USED FOR THE MEASUREMENTS. THE OUTPUT PULSE SHALL CONFIRM TO THE FOLLOWING SPECIFICATIONS.

ADJUST THE POSITIVE SIGNAL ACROSS R1 TO READ 9 VOLTS +/-5% ON THE OSCILLOSCOPE BY VARYING THE FILAMENT INPUT VOLTAGE.

RISE TIME - THE NEGATIVE PULSE OUTPUT SHALL RISE FROM 10% TO 90% OF THE MAXIMUM VOLTAGE IN NO MORE THAN 0.25 MICRO SECONDS.

WIDTH - AT 70% OF IT'S FULL AMPLITUDE THE PULSE WIDTH SHALL BE 0.32 +/-0.03 MICRO SECONDS

AMPLITUDE - THE RATIO OF THE MAXIMUM AMPLITUDE OF THE PULSE OUTPUT TO THE SIGNAL ACROSS R1 SHALL BE 10:1 +/-10%.

1 3.5 INTERCHANGE TERMINAL 6 WITH TERMINAL 4 AND TERMINAL 3 WITH TERMINAL 1.

3.6 THIS TRANSFORMER SHALL ALSO COMPLY WITH FIGURE 2 ON SHEET 2.

4. OTHER REQUIREMENTS

4.1 THE TRANSFORMER SHALL COMPLY WITH SPECIFICATION MIL-T-27E GRADE 4, CLASS R.

4.2 THE EXTERIOR OF THE CASE IS TO BE FINISHED WITH PAINT OF A MEDIUM COLOR SUCH AS MUNSELL N4.5

4.3 THE TRANSFORMER SHALL BE MARKED AS SHOWN EXCEPT THAT THE MAUNFACTURER'S NAME OR SYMBOL SHALL APPEAR IN ADDITION TO THE REQUIRED INFORMATION.

5. OPERATING CONDITIONS FOR FIGURE 2, TEST SETUP #2

5.1 6.3 V.A.C. SHALL BE APPLIED TO THE HEATER (PINS 1 & 9).

5.2 THE SQUARE WAVE GENERATOR SHALL OPERATE AT 2,200 HERTZ AT 10 VOLTS MINIMUM PEAK TO PEAK.

6. REQUIREMENTS OF FIGURE 3

6.1 MEASUREMENTS SHALL BE MADE WITH A MODEL 475D TEKTRONIX OSCILLOSCOPE, OR EQUIVALENT.

6.2 WITH S1 CLOSED AND S2 OPEN, THE AMPLITUDE OF THE PULSE AT OUTPUT 1 SHALL BE 180 VOLTS MINIMUM.

6.3 WITH S1 CLOSED AND S2 CLOSED, THE AMPLITUDE OF THE PULSE AT OUTPUT 1 SHALL BE 70 VOLTS MINIMUM.

6.4 WITH S1 OPEN AND S2 OPEN, THE AMPLITUDE OF THE PULSE AT OUTPUT 2 SHALL BE 30 VOLTS MINIMUM

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
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LIST OF MATERIAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		FINAL APPROVAL <i>[Signature]</i>	DATE 3/7/86	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK TRANSFORMER, PULSE TF-455	
DECIMALS .X ± .05 FRACTIONS 1/64		MECH. DES. <i>[Signature]</i>	DATE 3/10/86		
.XX ± .01 TOLS. ANGLES		ELECT. DES. <i>[Signature]</i>	DATE 3/7/86		
.XXX ± .005 0° -30'		CHECKED	DATE		
MATERIAL		DRAWN <i>[Signature]</i>	DATE 3-10-86	SIZE B	CODE IDENT. NO. 82679
FINISH				ISSUE	TF-455 1 0
SCALE				SHEET 3 OF 4	

QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
CODE		

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REVISIONS					DATE	APPROVED
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	

TRANSFORMER, Audio. TF456

ELECTICAL RATING

IMPEDANCE SOURCE	15,000 OHMS
LOAD	95,000 OHMS
POWER LEVEL	MAXIMUM 10 DBm
LIFE EXPECTANCY	MINIMUM 10,000 HOURS
ALTITUDE	MAXIMUM 10,000 FEET
OPERATING TEMPERATURE	60 DEGREES C WITH 40 DEGREE C HEAT RISE
WORKING VOLTAGE	175 VOLTS
FREQUENCY RANGE	350-7000 CPS + OR - 2DB

PHYSICAL CHARACTERISTICS

CASE SIZE	
WEIGHT	MAXIMUM 8 OUNCES
SHOCK	METHOD 2 50 G
TERMINALS SOLDER LUG	MINIMUM 18 AWG
TERMINAL HEIGH	MAXIMUM 0.375 INCHES

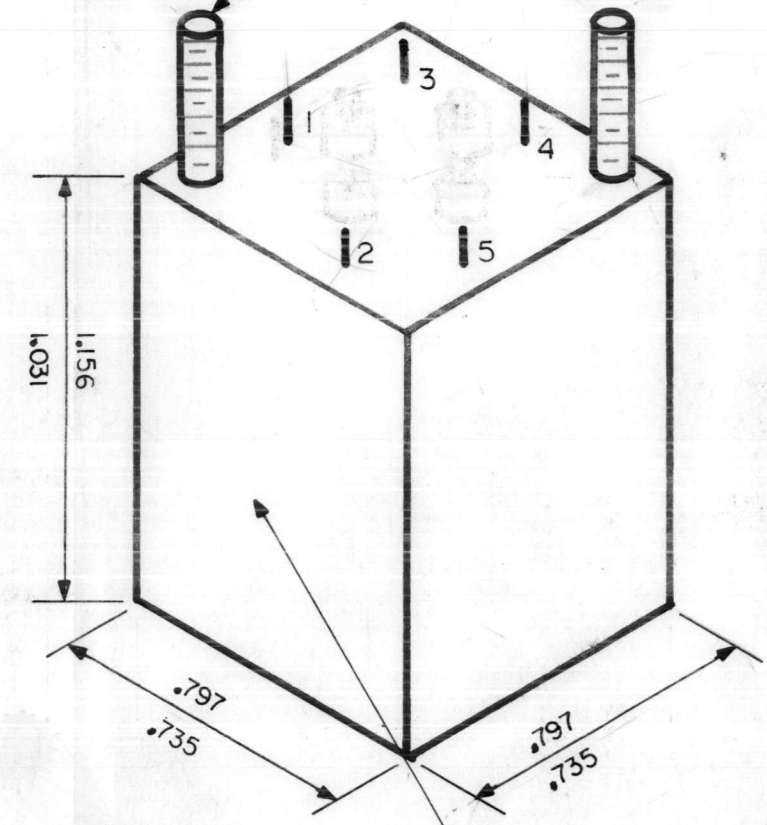
ELECTRICAL PROPERTIES

HARMONIC DISTORTION	MAXIMUM 5% WITH 3.0 MA. DC IN PRIMARY
PRIMARY IMPEDANCE	MINIMUM 2K-OHMS WITH 3.0 VOLTS 60 CPS 3.0 MA. DC
FREQUENCY RESPONSE	MINIMUM 350-7000 CPS + OR - 2 DB
RATED LOAD	
ELECTROSTATIC SHIELDING	MINIMUM VOLTAGE RATIO 5 TO 1 AT 20 KHZ
POLARITY	ADDITIVE WITH 2 AND 3 CONNECTED
RESONANCE	OPEN CIRCUIT PRIMARY RESONANCE 1.4KHZ TO 4.5 KHZ

NOTES

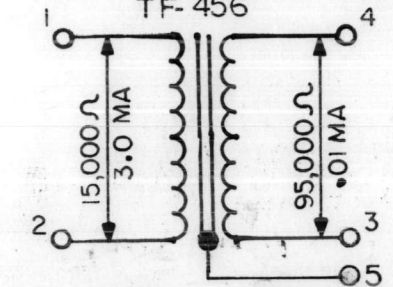
1. TRANSFORMER TO CONFORM TO ALL REQUIREMENTS OF MIL-T-27A MODIFIED AS LISTED BELOW
2. TERMINAL ARRANGEMENT OPTIONAL WITHIN MOUNTING AREA INDICATED ON THE TEMPLATE BUT TERMINALS MUST MAINTAIN A MINIMUM CLEARANCE OF .060 TO CHASSIS.
3. MOUNTING HARDWARE NOT SUPPLIED
4. PRESERVATION, PACKAGING, PACKING AND MARKING FOR DOMESTIC SHIPMENT FOR IMMEDIATE USE.
5. MARKING MUST INCLUDE TYPE TF4RX20YY CIRCUIT DIAGRAM AND BUREAU OF ORDNANCE DRAWING NO. 1626636.
- 6 CASE YY SAME DIMENSIONS AS TYPE AF CASE EXCEPT FOR MOUNTING STUD LOCATION

440NC, X.38
(2 STUDS)



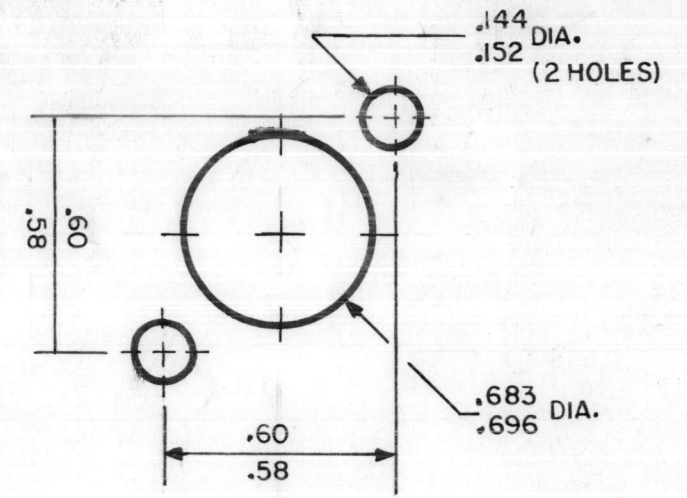
CIRCUIT DIAGRAM & MARKING ON THIS SIDE

TECHNICAL MATERIEL CORPORATION
MAMARONECK, NY 82679
TF-456



BUORD NO. 1626636
TF4RX20YY

CIRCUIT DIAGRAM & MARKING



TEMPLATE CHASSIS CUTOUT

QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
CODE		

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DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		MECH. DES.	DATE
FRACTIONS 1/64 ANGLES 0° .30'		ELECT. DES.	DATE
MATERIAL		CHECKED	DATE
FINISH		DRAWN <i>RAW</i>	DATE <i>4-86</i>

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER REF. BUORD. 1626636				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF456		
SCALE			SHEET	OF

5

4

3

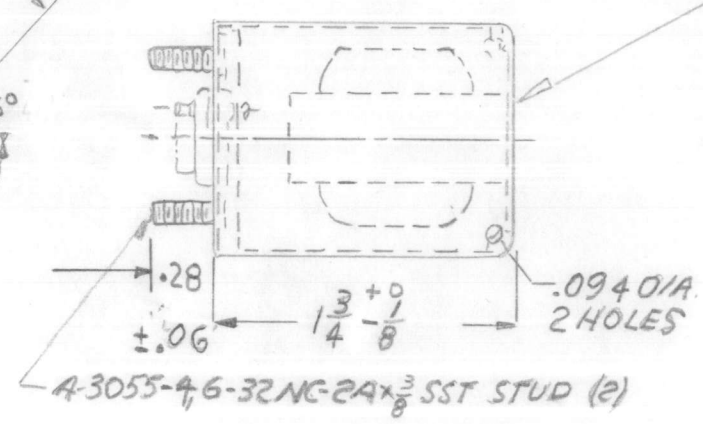
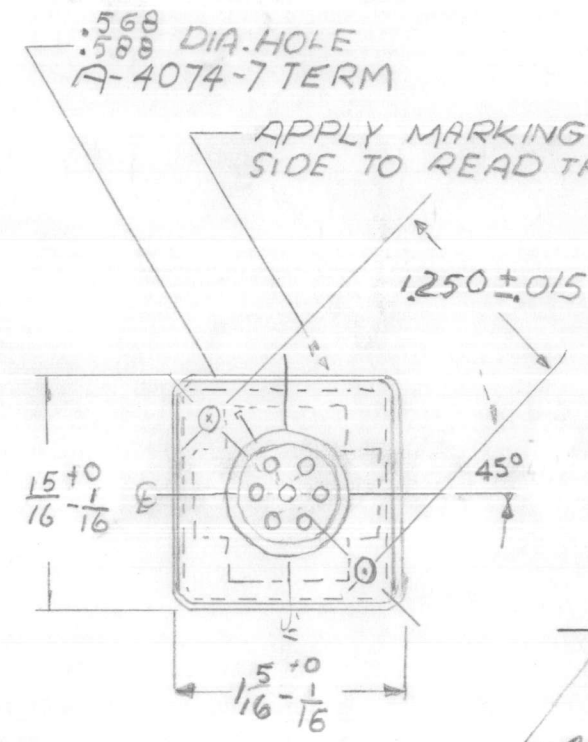
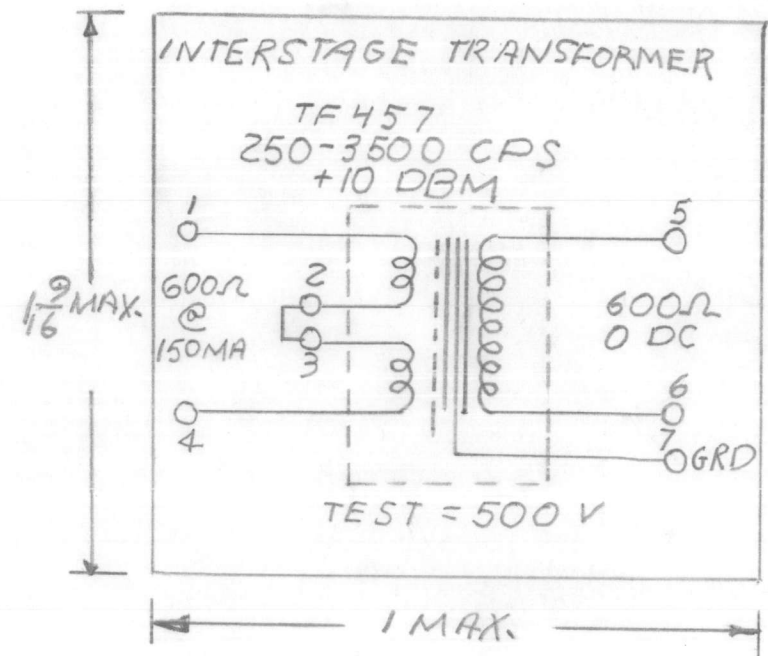
2

1

REVISIONS					DATE	APPROVED
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	

TOLERANCES UNLESS OTHERWISE SPECIFIED $\pm \frac{1}{32}$

- UNIT TO BE HERMETICALLY SEALED-USE 60/40 ROSIN CORE SOLDER AT LID(S), TERM(S), & PLUGS ETC. & SILVER SOLDER & BORAX FLUX AT MTG. STUDS/INSERTS.
- UNIT SHALL BE COATED WITH AN FUNGICIDAL VARNISH PER MIL-V-173A.
- FINISH PLATE PER A-1231, PAINT LIGHT GRAY ENAMEL PER MIL-E-15090, TYPE III CLASS 2, FED STD. 595 COLOR NO 26622. DO NOT PAINT LID



MARKING BLACK ON GRAY

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER, INTERSTAGE AUDIO				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 457		
SCALE	SHEET			OF

QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
CODE		
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DECIMALS	FRACTIONS	TOLS.
.X ± .05	1/64	
.XX ± .01	ANGLES	0° -30'
.XXX ± .005		
MATERIAL		
FINISH		

5

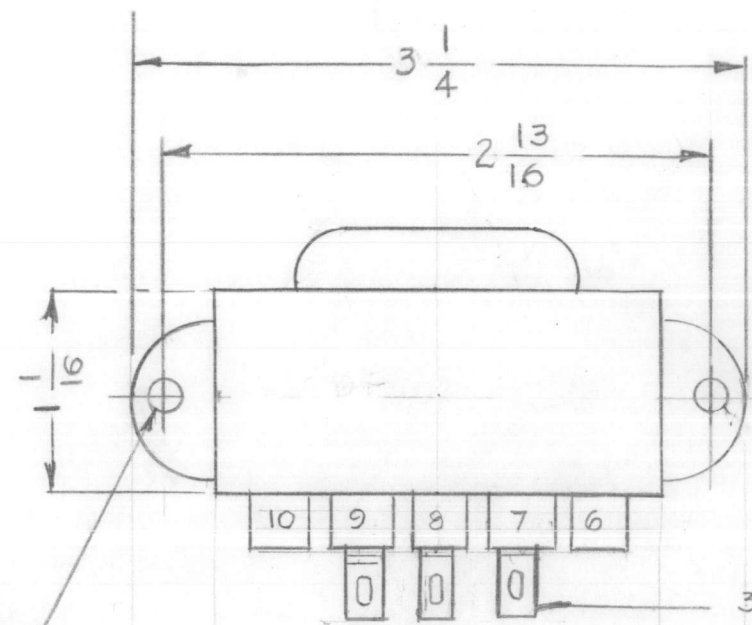
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3

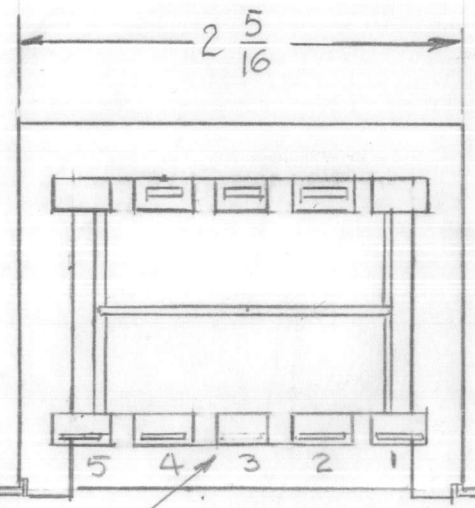
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1

REVISIONS					DATE	APPROVED
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	

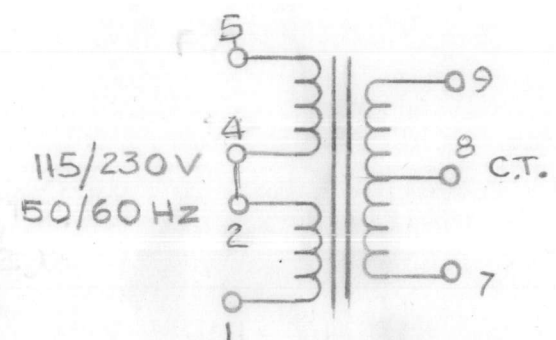


3/16 DIA
MTG HOLES
(2)

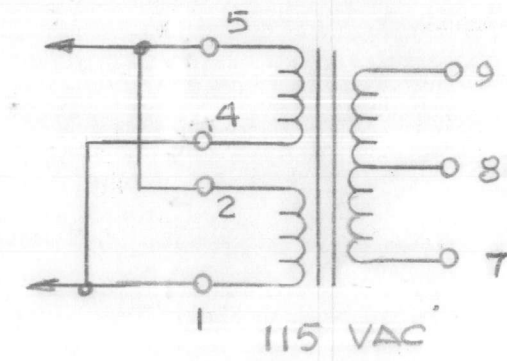


PRIMARY

3/16 SOLDER TERMS.



SCHEMATIC
DIAGRAM



~ ELECTRICAL SPECIFICATION ~
PRIMARY: 115 / 230 VAC
SECONDARY: 48V C.T @ 0.63A.

MFG. SIGNAL XFMR CO.
CATALOG-G8
DP 241-6.48 BSP.

1	BSP-35	
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
	CODE	

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DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	FRACTIONS 1/64 ANGLES 0° -30'	MECH. DES.	DATE
MATERIAL		ELECT. DES.	DATE
FINISH		CHECKED	DATE
		DRAWN <i>G.D.L.</i>	DATE 11/1/92

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TRANSFORMER, POWER				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF 459	Ø	
SCALE	SHEET		OF	

5

4

3

2

1