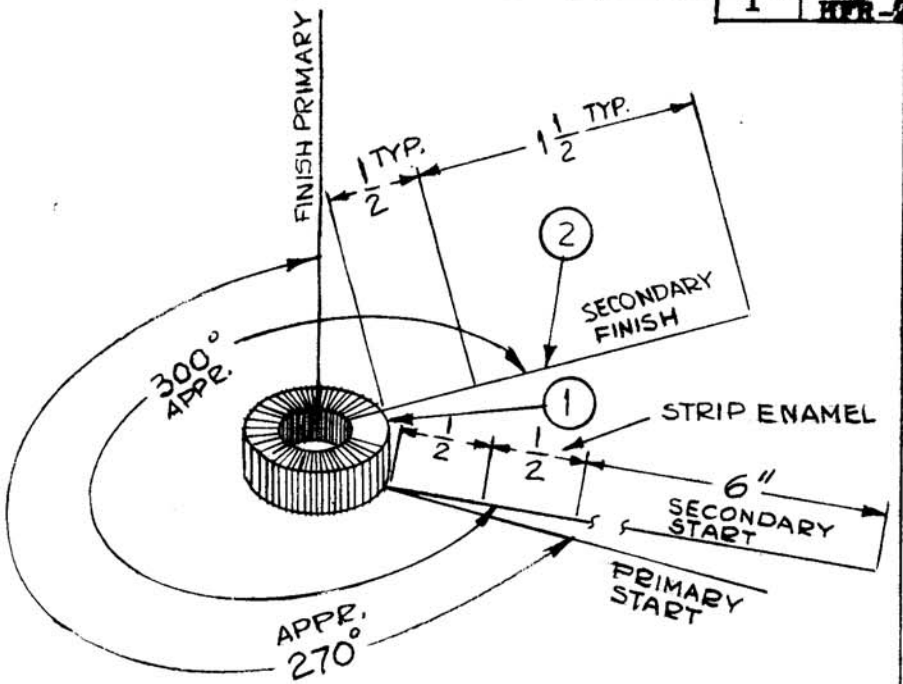
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

REQ. PER UNIT	USED ON MODEL	ASS'Y. NO.	DATE
1	HFR-1A	A 3556	3-18-64
1	HFR-2	A 3556	

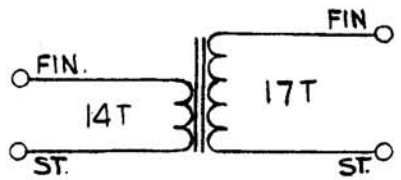
A 3554 B



NOTE
PRIMARY & SECONDARY TO BE WOUND IN PARALLEL TO FORM A SINGLE LAYER

SCHEMATIC

T1008



WINDING PROCEDURE

1. WIND SECONDARY 17 TURNS EQUALLY SPACED OVER THE ANGLE & IN THE DIRECTION SHOWN.
2. PUSH TURNS TOGETHER OR SPREAD APART AS NEEDED TO MEET INDUCTANCE.
3. STAKE LEADS SECURELY WITH Q-MAX.
4. WIND PRIMARY 14 TURNS EQUALLY SPACED OVER THE ANGLE & IN THE DIRECTION SHOWN.
5. STAKE LEADS SECURELY WITH Q-MAX.
6. BAKE FOR 1/2 HR. AT 215°F TO REMOVE MOISTURE.
7. COAT COIL & CORE WITH Q-MAX & BAKE 1/2HR. AT 215°F

* NOTE: USE TMC COIL STANDARDS FOR TEST REFERENCE.

ELECTRICAL SPECS.

SECONDARY L= 1.28 µh + 0.02 µh
WITH COIL CLAMPED INTO Q-METER 1/2" AWAY FROM TERMINALS, WITH START END OF COIL TO LOW SIDE.
Q= 190 MIN AT 16 MC
C DISTRIB. 0.8 µµf (FOR REF. ONLY)

PRIMARY L= 0.92 µh + 0.05 µh
Q= 120 MIN. AT 18 MC
C DISTRIB. 1.2 µµf (FOR REF. ONLY)

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
X	4	WI 141-24-9	WIRE MAGNET, SINGLE #24	
X	3	GL 102	Q-MAX	
X	2	WI 141-22-9	WIRE MAGNET, SINGLE #22	
1	1	CI 127-1	CORE, TOROID	

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	NOTE ADDED	1-12-67	17575	RME	G.D.L	
A	ELEC. SPECS. PRIMARY Q WAS 160 MIN	6-7-66	16346	N.C.		
Ø	ORIGINAL RELEASE FOR PRODUCTION	8/3/62	Ø			
X	EXPERIMENTAL RELEASE	3-30-64				

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRAC. ± 1/64 DEC. ± .005 ANGLES ± 1/2°

SCALE: DO NOT SCALE

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.
REM VE ALL BURRS AND SHARP EDGES

STOCK SIZE: —

MATERIAL: —

TYPE & TEMPER: — HEAT TREAT. SPEC.: —

FINISH & SPEC. NO.: —

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

TZ 181 ASSEMBLY

TRANSFORMER, ANTENNA BAN #7, FREQ 16-24 MC

DRAWN	CHECKED	FINAL APPROVAL
G.D.L		

ELEC. DES. APP.	MECH. DES. APP.	
Jkruger		A 3554 B

TMC FORM NO. 108-A

DEFIANCE NO. 1020 36845