

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
1

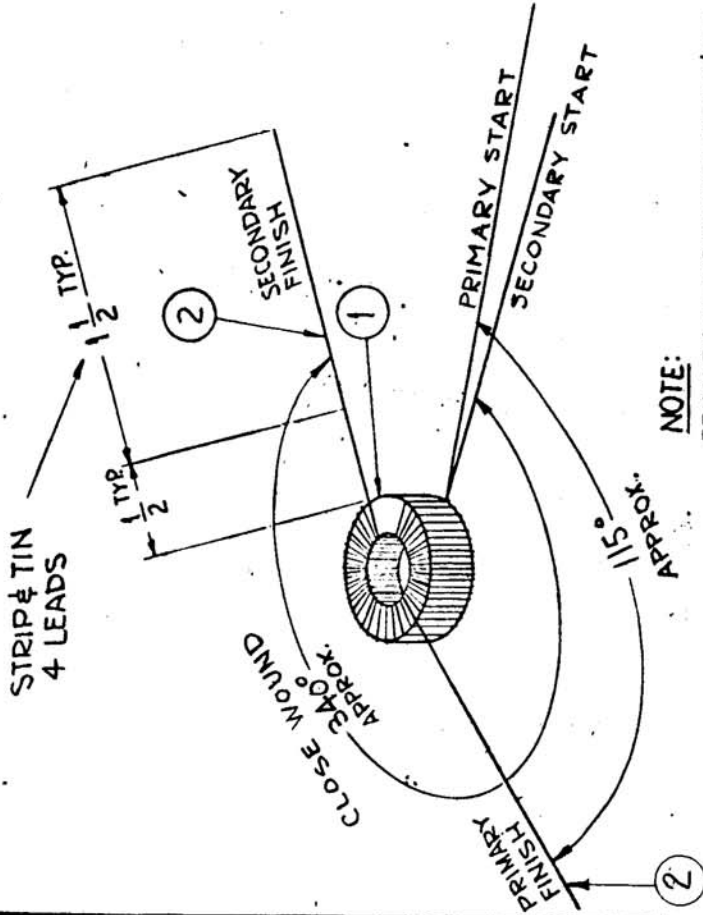
MODEL
HFR-1A

ASSY. NO.
A 3523

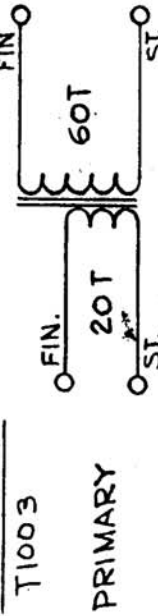
DATE
3-6-64

USED ON
A 3522

B



SCHEMATIC



NOTE:

PRIMARY TO BE WOUND OVER (ON TOP OF) SECONDARY WINDING.

WINDING PROCEDURE

1. WIND SECONDARY APPROX. 60 TURNS EQUALLY SPACED OVER THE ANGLE ϕ IN THE DIRECTION SHOWN.
2. REMOVE OR ADD TURNS TO MEET INDUCTANCE.
3. STAKE LEADS SECURELY WITH Q-MAX
4. WIND PRIMARY 20 TURNS EQUALLY SPACED OVER THE ANGLE ϕ 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 1/2 HR. AT 215° F.

* NOTE: USE TMC COIL STANDARDS FOR TEST REFERENCE.
ELECTRICAL SPECS

SECONDARY L = 13.9 μ h \pm 0.25 μ h.
Q = 160 MIN. AT 2.5 MC
Cdist. = 1.7 μ uf. (FOR REF ONLY)

PRIMARY L = 2.7 μ h \pm 0.13 μ h
Q = 50 MIN AT 5 MC
Cdist = 5.7 μ uf (FOR REF ONLY)

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
X 3	GL102	Q-MAX	
X 2	WI 141-20-9	MAGNET WIRE, SINGLE # 28	
1	CI 127-1	CORE, TOROID	
STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
MATERIAL		TZ 176 ASSEMBLY	
TYPE & TEMPER		TRANSFORMER, ANTENNA BAND 2, FREQ 3-4 MC	
HEAT TREAT. SPEC.		G.O.L	
FINISH & SPEC. NO.		DRWN JLH	
		CHECKED	
		FINAL APPROVAL	
		ELEC. DES. APP. MECH. DES. APP.	
		A 3522	B

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	NOTE ADDED	1-12-67	17575	RME	G.D.L	
A	IT. 2 PIN WAS WI 141-28	1-22-65	13337	L.F.		
Q	ORIGINAL RELEASE FOR PRODUCTION	8-13-64				
X	EXPERIMENTAL RELEASE	3-26-64				
SCALE: DO NOT SCALE						
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES						
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES						
TOLERANCES N						
FRAC. \pm 1/64 DEC. \pm .005 ANGLES \pm 1/2°						