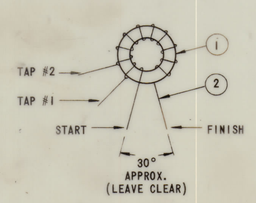
TMC P/N	WINDING DATA: TURNS REQD APPROX.	TAP #1 LOOP NO	TAP #2 LOOP NO	SPACING	MATERIAL APPLICABLE: ITEM 1 CORE	ITEM 2 WIRE	ITEM 3 CAPACITOR	ITEM 4 RESISTOR	ITEM 5 COIL	ITEM 6 RESISTOR	PRELIMINARY ELECTRICAL SPECIFICATIONS: INDUCTANCE SEE PROCEDURE NO. (1)	INDUCTANCE VALUE IN µH	INDUCTANCE TOL IN µH	UNLOADED Q VALUE	UNLOADED Q TOL %	UNLOADED Q FREQ MHz	UNLOADED Q RESONATING CAPACITOR	FINAL ELECTRICAL SPECIFICATIONS: INPUT FREQ Mc ±5%	-3dB POINTS LOW FREQ Mc ±5%	-3dB POINTS HIGH FREQ Mc ±5%	INPUT m VOLTS RMS	OUTPUT m VOLTS RMS ±5 dB
TZ225-1A	204	4	12	CLOSE	CH127-2	WI141-40-9	CM15C470J03	RC07GF683J	CL275-102J		3	114.9	±3.45	95	±2Ø	2.0	APPROX 50pF	1.510	1.489	1.529	1.4	16
-2A	149	4	8	↑	↑	WI141-38-9	↓	RC07GF823J	CL275-821J		3	64.6	±1.94	118	↑	2.8	↓	2.037	2.021	2.070	2.0	12.5
-3A	109	3	6	↑		WI141-36-9		RC07GF563J	CL275-471J		3	35.1	±1.05	125		3.8		2.720	2.696	2.758	2.0	28
-4A	82	3	6	CLOSE		WI141-34-9		RC07GF104J	CL275-331J	RC07GF682J	3	18.8	±0.564	140		5.2		3.760	3.740	3.790	4.5	100
-5A	59	2	5	EVENLY		WI141-32-9		RC07GF154J	CL275-221J	RC07GF472J	3	10.3	±0.309	145		7.0		5.143	5.123	5.168	3.0	110
-6A	45	2	7	↑		WI141-30-9		RC07GF683J	CL275-270J	RC07GF102J	3	5.85	±0.175	162		9.3		6.724	6.670	6.770	7.0	100
-7A	33	2	6			WI141-30-9				RC07GF121J	3	3.24	±0.097	155		12.5		9.106	9.078	9.134	13.0	100
-8A	23	1	3			WI141-28-9				RC07GF820J	4	1.82	±0.0546	155		16.7		12.210	12.170	12.240	1.6	16
-9A	17	1	3	↑	↑	WI141-24-9	↓			RC07GF820J	4	1.00	±0.030	147	↑	22.5	↓	16.600	16.550	16.640	5.0	100
-10A	13	1	2	EVENLY	CH127-2	WI141-22-9	CM15C470J03			RC07GF820J	4	0.563	±0.0169	136	±20	30.0	APPROX 50pF	22.350	22.300	22.242	5.5MV	95
-1B	SAME AS 1A						CM15C330J03				SAME AS 1A							SAME AS 1A				
-2B	SAME AS 2A						↓				SAME AS 2A							SAME AS 2A				
-3B	SAME AS 3A										SAME AS 3A							SAME AS 3A				
-4B	SAME AS 4A										SAME AS 4A							SAME AS 4A				
-5B	SAME AS 5A										SAME AS 5A							SAME AS 5A				
-6B	SAME AS 6A										SAME AS 6A							SAME AS 6A				
-7B	SAME AS 7A										SAME AS 7A							SAME AS 7A				
-8B	SAME AS 8A										SAME AS 8A							SAME AS 8A				
-9B	SAME AS 9A										SAME AS 9A							SAME AS 9A				
-10B	SAME AS 10A						CM15C 330J03				SAME AS 10A							SAME AS 10A				
-11A	345	5	15	CLOSE	C1127-2	WI104-343 SCQS	CM15C 431 G03		CL 275-332		3	365	± 2 %	70	± 10 %	475KHZ		405 KHZ	395 KHZ	415 KHZ		
-11B	↑	↑	↑	↑	↑	↑	391		↑		↑	↑	↑	↑	↑	↑		420	410	430		
-11C	↓	↓	↓	↓	↓	↓	361		↓		↓	↓	↓	↓	↓	↓		438	425	450		
-11D							321											460	445	475		
-11E							271											493	470	515		
-11F	345	5	15	CLOSE	C1127-2	WI104-343 SCQS	CM15C 241 G03		CL 275-332		3	365	± 2 %	70	± 10 %	475KHZ		533 KHZ	510 KHZ	555 KHZ		

ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	E	ORIGINAL RELEASE FOR PRODUCTION	11-15-66		RG		
	A	CHART REVISED	9/19/68	19516	CV		
	B	ADDED -11A TO -11E	11/19/68	20470	GE		

PROCEDURE (1) WINDING

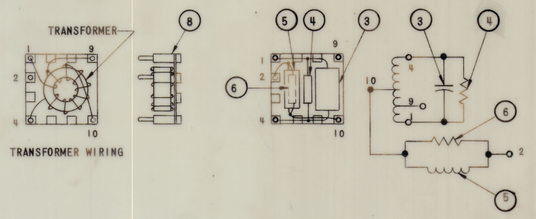
1. WIND REQUIRED NUMBER OF TURNS AS SHOWN, CLOSE OR EVENLY SPACED APPROXIMATELY 330° AROUND CORE.
2. TAP AS REQUIRED.
3. ADD OR SUBTRACT TURNS TO MEET INDUCTANCE.
4. SPREAD TURNS OR PUSH TOGETHER TO MEET INDUCTANCE.
5. SECURE WINDING AND LEADS WITH ITEM 7
6. BAKE FOR 1/2 HOUR AT 180°F.
7. COAT CORE AND WINDING WITH ITEM 7 AND BAKE FOR 1/2 HOUR AT 150°F.
8. LEADS TO BE 1-1/4" LONG, STRIP AND TIN #1.
9. TEST L AND Q AS PER PRELIMINARY ELECTRICAL SPECIFICATIONS. USING Q METER FOR -11A THRU -11F



TRANSFORMER WINDING DETAIL

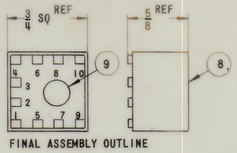
PROCEDURE (2) ASSEMBLY

ASSEMBLE AS SHOWN



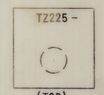
TRANSFORMER WIRING

PROCEDURE (3) FINAL ASSEMBLY



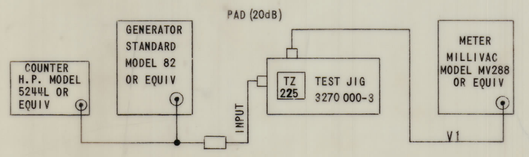
FINAL ASSEMBLY OUTLINE

1. ASSEMBLE HEADER AND PARTS AND WIRE AS PER APPLICABLE DETAIL.
2. ASSEMBLE SHELL WITH HEADER ASSEMBLY.
3. POTTING, ITEM 9 AS PER SPEC S10149.
4. STAMP TMC P/N AS SHOWN 3/32 HIGH BLACK GOTHIC



(TOP)

PROCEDURE (4) FINAL TEST



1. SET GENERATOR TO INPUT FREQ (SEE CHART) PEAK GEN.
2. SET INPUT VOLTS TO (SEE CHART).
3. MEASURE 3dB POINTS (SEE CHART)
   a. LOW FREQ (SEE CHART) ±5%
   b. HIGH FREQ (SEE CHART) ±5%

QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
X	10	BS100	SOLDER, TIN ALLOY	
X	9	GL10005-3110-H	ENCAPSULANT	
1	8	BP10002-1	HEADER WITH SHELL (MODU-CON)	
X	7	GL102	Q MAX	
1	6	SEE CHART	RESISTOR	
1	5	↓	COIL	
1	4		RESISTOR	
1	3		CAPACITOR	
X	2	↑	WIRE	
1	1	SEE CHART	CORE	

LIST OF MATERIAL

QTY / UNIT	MODEL USED ON SME-6 MFE-1	ASS'Y NO. A4647
	APPLICATION	
	CODE	

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

MATERIAL

FINISH

		DATE
FINAL APPROVAL		
MECH. DES.		
ELECT. DES.		
CHECKED		11-19-68
DRAWN	L. Ybarra	11/4/68

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

TRANSFORMER, NETWORK, RF
PLUG-IN

SIZE	CODE IDENT. NO.	DWG NO.	ISSUE
D	82679	TZ 225	B
SCALE		SHEET	OF

TZ 225 B

PCI-10-170 (10-68)