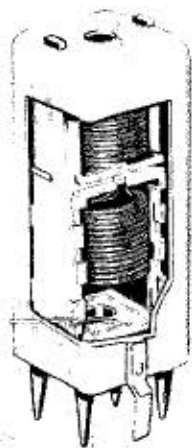


Miller: 13-PH1, 13-PH2, 13-PH6, 13-PC1,
13-PC2, 13-PC6, 13-PC7, 13-PC8,
13-PC9, 13-PC10, 6203-PC, 6204-PC,
6205-PC, 1463-PC, 1464-PC, 1465-PC



K-TRAN

The finest miniature printed circuit I.F. transformer ever manufactured. Only 2 1/8" high by 3/4" square.



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MINIATURE PRINTED CIRCUIT I.F. TRANSFORMERS

The Miller K-Tran I.F. Transformers for printed circuits are available in the following frequencies: 262 kc., 455 kc., 4.5 Mc. and 10.7 Mc.

The 4.5 Mc. transformers are for use in television receivers having an intercarrier sound channel. 10.7 Mc. transformers find their main application in FM receivers and tuners.

All transformers are shell core permeability tuned, thus providing a magnetic shielding of the windings and reducing the influence of the aluminum can. Stable silver mica fixed capacitors are enclosed in the low-loss terminal base.

A small non-metallic screwdriver should be used for adjusting the transformers to resonance. Under no circumstances should the adjustment exceed the free travel of the cup cores.

Data on gain and bandwidth given below is applicable to tube types indicated. The application of I.F. transformers, however, is by no means limited to these tube types. On types 13-PH and 13-PC (262 kc. and 445 kc.) reversal of primary terminals (#4 to plate and #3 to B+) will result in somewhat less gain and bandwidth. Similar results on same types of transformers (except 13-PH6 and 13-PC6) will be obtained when interchanging primary and secondary. Transformers operating at 4.5 Mc. and 10.7 Mc. should always be connected as shown in diagrams on the reverse page.

CAT. NO.	FREQ.	USE		GAIN	BANDWIDTH
13-PH1	262 kc.	Input Transformer	Gain (with 6BE6, 240 volts plate):	85.	2 x Bandwidth: 9 kc.
13-PH2	262 kc.	Output Transformer	Gain (with 6BA6, 240 volts plate):	192.	2 x Bandwidth: 10 kc.
13-PH6	262 kc.	Output Transformer with two 125 mmf diode filter capacitors	Gain and bandwidth same as 13-PH2		
13-PC1	455 kc.	Input Transformer	Gain (with 6BE6, 240 volts plate):	72.	2 x Bandwidth: 16 kc.
13-PC2	455 kc.	Output Transformer	Gain (with 6BA6, 240 volts plate):	181.	2 x Bandwidth: 21 kc.
13-PC6	455 kc.	Output Transformer with two 125 mmf diode filter capacitors	Gain and bandwidth same as 13-PC2		
13-PC7	455 kc.	Input Transformer for Battery Radios	Gain (with 1R5, 90 volts on plate):	24.	2 x Bandwidth: 19 kc.
13-PC8	455 kc.	Output Transformer for Battery Radios	Gain (with 1T4, 90 volts plate):	80.	2 x Bandwidth: 21 kc.
13-PC9	455 kc.	Input Transformer for AC-DC Radios	Gain (with 12BE6, 100 volts plate):	65.	2 x Bandwidth: 16 kc.
13-PC10	455 kc.	Output Transformer for AC-DC Radios	Gain (with 12BA6, 100 volts plate):	186.	2 x Bandwidth: 21 kc.
6203-PC	4.5 Mc.	Input or Interstage Transformer	Gain (with 6AU6, 125 volts plate):	32.	2 x Bandwidth: 150 kc.
6204-PC	4.5 Mc.	Discriminator Trans.	Peak separation: 140 kc.		Linearity: 70 kc.
6205-PC	4.5 Mc.	Ratio Detector Trans.	Peak separation: 180 kc.		Linearity: 100 kc.
1463-PC	10.7 Mc.	Input or Interstage Transformer	Gain (with 6BA6, 240 volts plate):	41.	2 x Bandwidth: 260 kc.
1464-PC	10.7 Mc.	Discriminator Trans.	Peak separation: 385 kc.		Linearity: 240 kc.
1465-PC	10.7 Mc.	Ratio Detector Trans.	Peak separation: 320 kc.		Linearity: 170 kc.

Manufactured under K-TRAN patents of and by Automatic Manufacturing Corp. (K-TRAN is a registered trade-mark.)

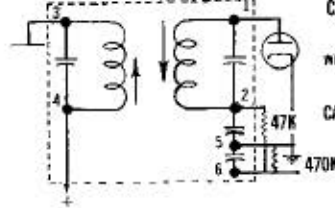
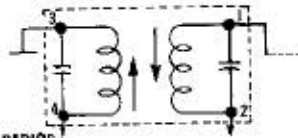
13-PH 1, 25M 4-64FH
PRINTED IN U.S.A.

(Available Through Your Local Distributor)

J. W. MILLER COMPANY

455 KC AND 262 KC

- CAT. NO. 13-PC1 455 KC INPUT
- CAT. NO. 13-PC2 455 KC OUTPUT
- CAT. NO. 13-PH1 262 KC INPUT
- CAT. NO. 13-PH2 262 KC OUTPUT
- CAT. NO. 13-PC7 455 KC INPUT BATTERY RADIOS
- CAT. NO. 13-PC8 455 KC OUTPUT BATTERY RADIOS
- CAT. NO. 13-PC9 455 KC INPUT AC-DC RADIOS
- CAT. NO. 13-PC10 455 KC OUTPUT AC-DC RADIOS

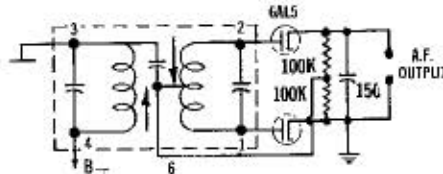
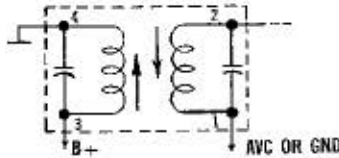


CAT. NO. 13-PC6 455 KC OUTPUT
WITH BUILT-IN DIODE FILTER CAPACITORS
CAT. NO. 13-PH6 262 KC OUTPUT

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10.7 AND 4.5 MC

INPUT OR INTERSTAGE
CAT. NO. 6203-PC 4.5 MC

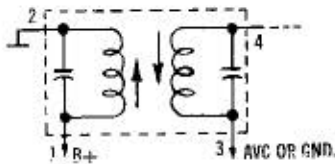


DISCRIMINATOR
CAT. NO. 1464-PC 10.7 MC
CAT. NO. 6204-PC 4.5 MC

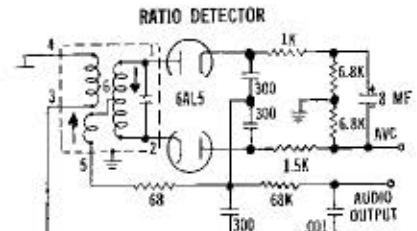


10.7 AND 4.5 MC

INPUT OR INTERSTAGE



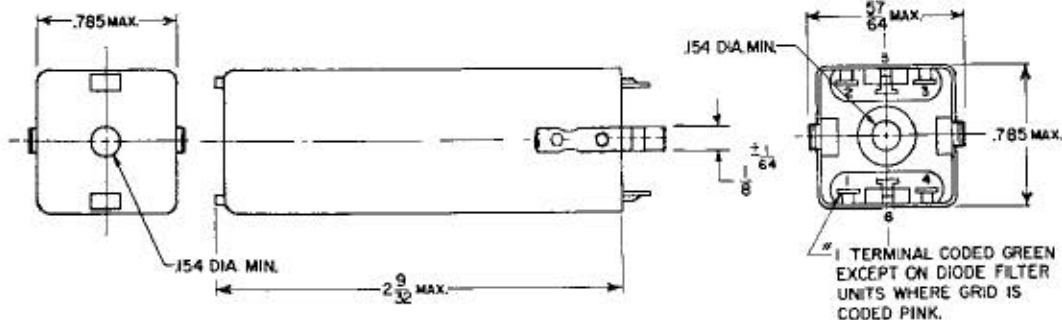
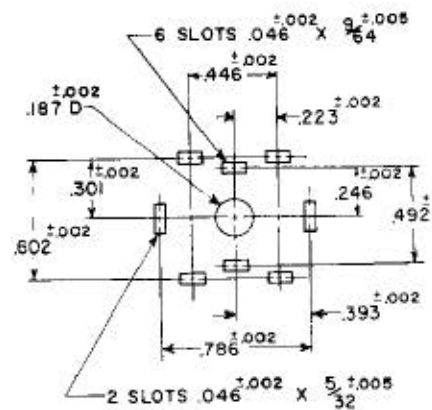
CAT. NO. 1463-PC 10.7 MC



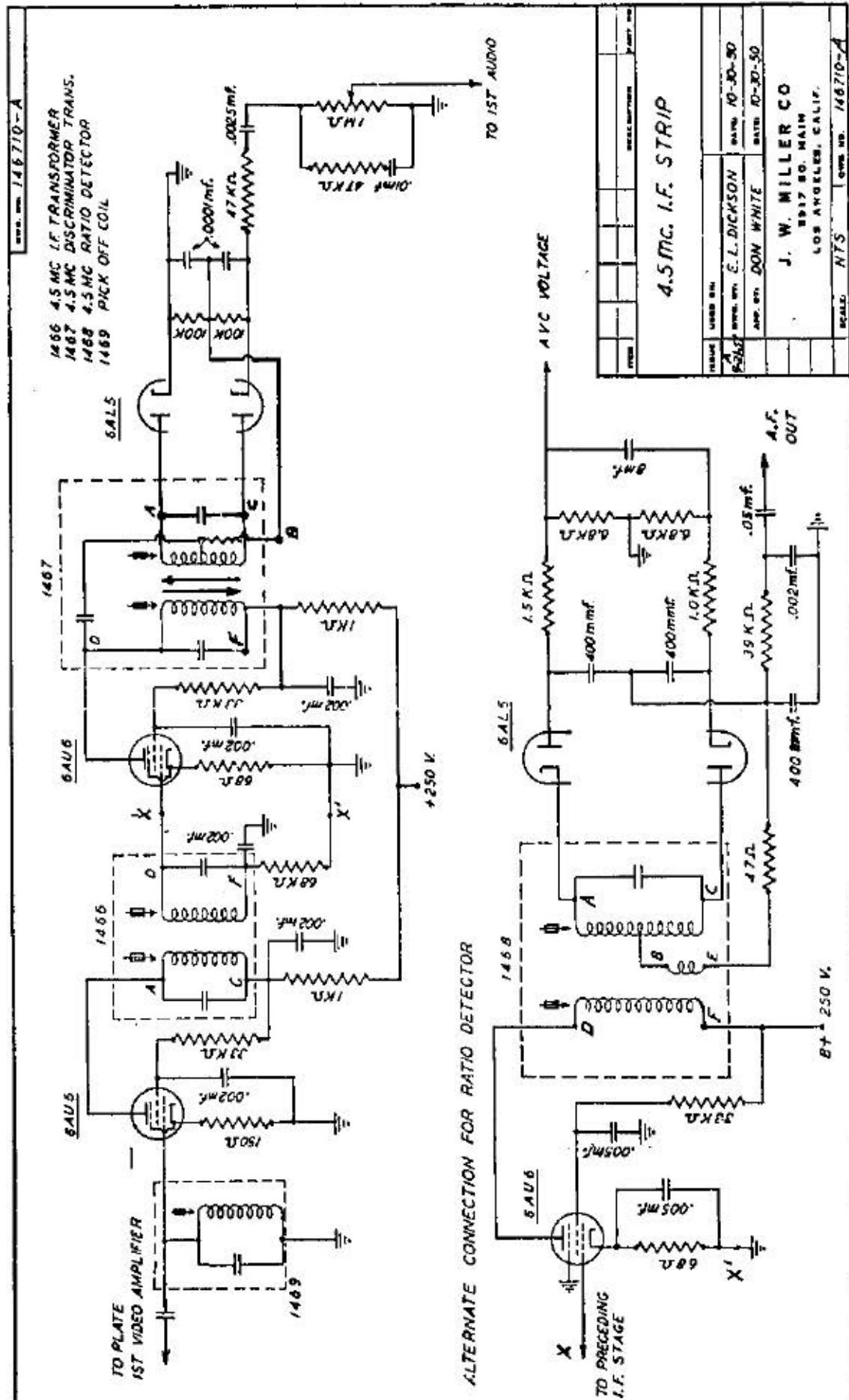
CAT. NO. 6205-PC 4.5 MC
CAT. NO. 1465-PC 10.7 MC

TERMINAL	STEP-UP RATIO CAP		STEP-DOWN RATIO CAP	
	AIDING	OPPOSING	AIDING	OPPOSING
1	GRID	GRID	PLATE	B+
2	G'ND	G'ND	B+	PLATE
3	PLATE	B-	GRID	GRID
4	B-	PLATE	G'ND	G'RD

COLOR DOT INDICATING TERMINAL NO. 1 ON BASE AND "STEP UP — STEP DOWN" TABLE APPLIES ONLY TO 455 AND 262 KC IF TRANSFORMERS



1 TERMINAL CODED GREEN EXCEPT ON DIODE FILTER UNITS WHERE GRID IS CODED PINK.



In some receivers better balancing may be obtained by reversing leads A and C of the Ratio Detector Transformer No. 1468.