OPERATION
AND
SERVICE MANUAL
NO. 490290

MODEL 1204A/1234A SWEEP SIGNAL GENERATOR

3 Ob bandinth

Filler TBA 140-17-4

I

TELONIC INSTRUMENTS LTD

Boyn Valley Road, Maidenhead, Berkshire SL64EG Tel: Maidenhead (9628) 73933, Telex: 849131 (Tionic G), Fax: (0628) 770529

1996 Toubley Works, Toubley RD, Wokingham RG11-5 CON 01734-786911 (John Strong)

2011 as deve. 264.10N. 0118 9786911

West Mall Engineers - WME



Folmie 1204

Pued 900 moderable 900-1600 amplifer 1-500

> 502 only a 1204 752 only on 1234

Similar is:
Telonie 1205 (cimilar panel) lub 3
Révanges 0-500
450-950
900-1500

1.1 GENERAL INFORMATION

The Model 1204A/1234A is a Sweep/Signal Generator covering the frequency range of 1 to 500 MHz in one band. The instrument provides all necessary versatility for laboratory use while maintaining small size and rugged construction required for production use.

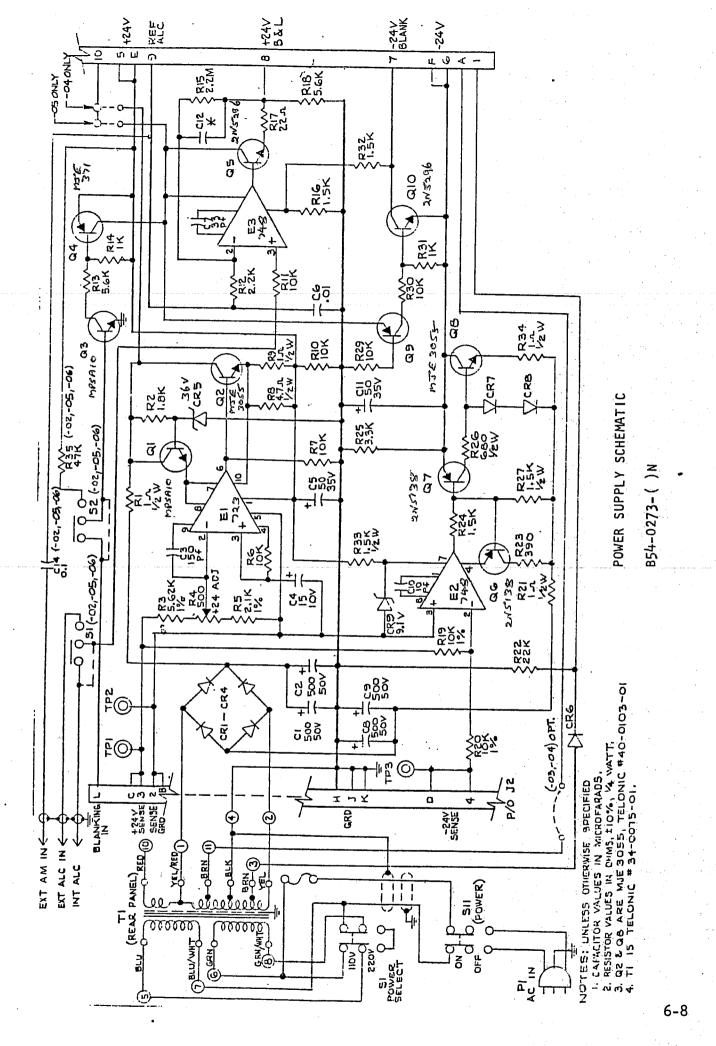
For accurate determination of frequencies, this instrument is capable of being equipped with harmonic (Model 8020) and single frequency (Model 8015) markers. These are birdy-bypass markers. The individual marker frequencies are determined by the particular application of the instrument. The instrument will accept a maximum of seven birdy marker plug-in cards.

1.2 SPECIFICATIONS

Table 1-1 lists the principal functional, electrical, and mechanical specifications of the Model 1204A/1234A Sweep Generator.

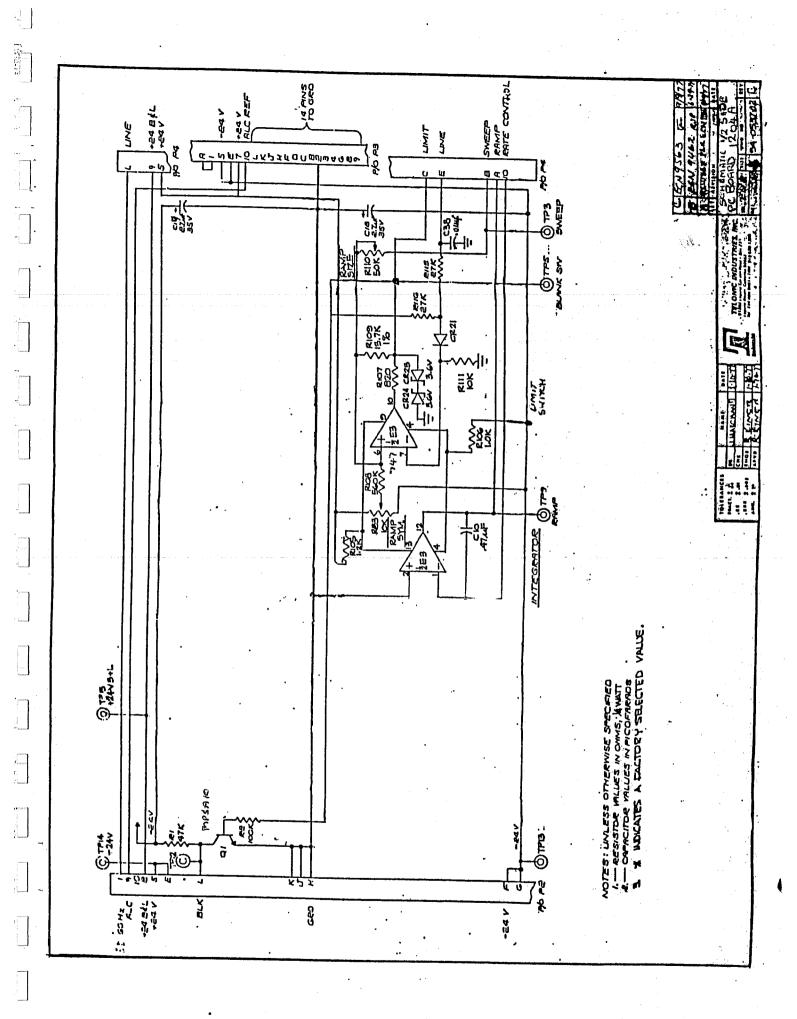
Table 1-1 Model 1204A/1234A Specifications

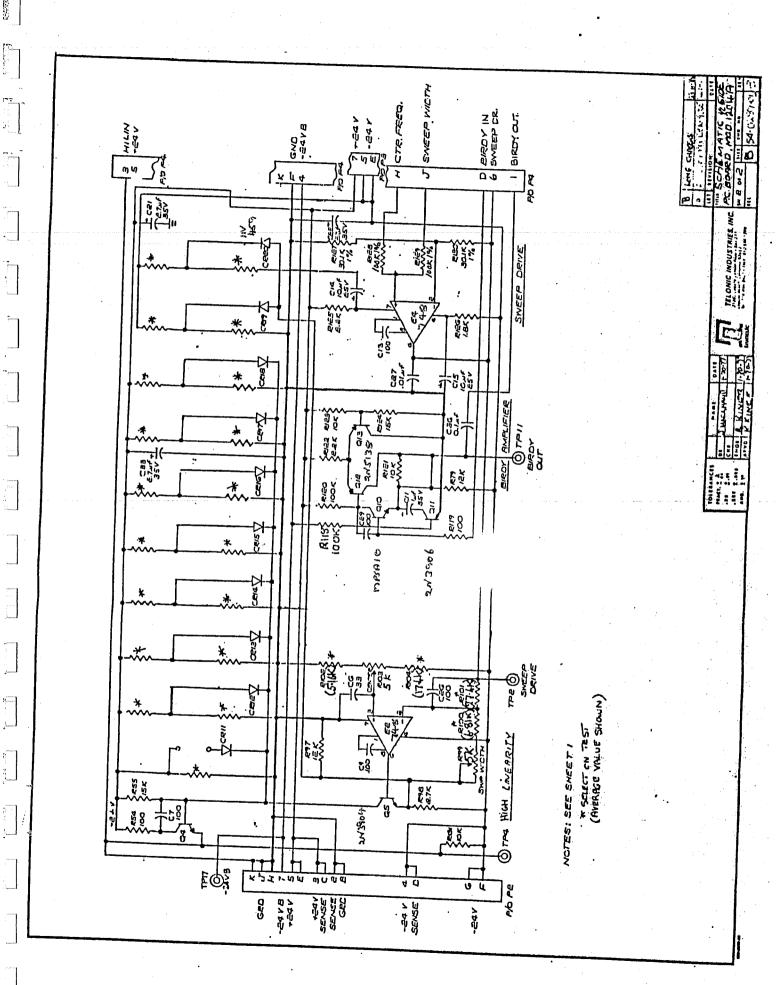
lable I-I Model 1204A/1234A Specifications	
Specification	Characteristics
Frequency Range	1 to 500 MHz
Sweep Width	100 KHz to 500 MHz
Output Level	0.7 Vrms
Output Impedance Model 1204A Model 1234A	50 ohms 75 ohms
Leveling Range	3dB
Flatness	±0.25dB
Attenuators Model 1204A Model 1234A	110dB in 1dB steps 80dB in 1dB steps
Signal Purity	Harmonics: -26dB to 10 MHz Spurious: -30dB 10 to 500 MHz
Linearity	1% of full sweep width
Dial Accuracy	2% of full scale
Residual FM	20 KHz max.
Drift (after 1 hr. warmup)	1% of maximum frequency/hr. max.



Ü

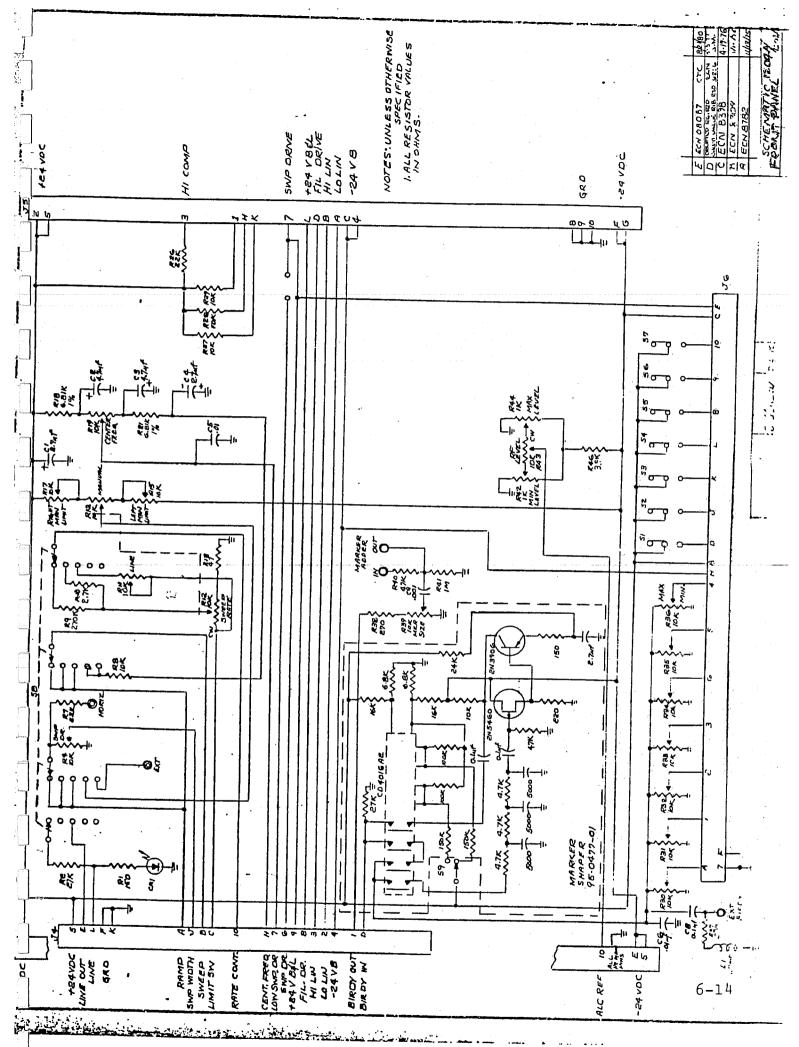
West Mall Engineers - WME

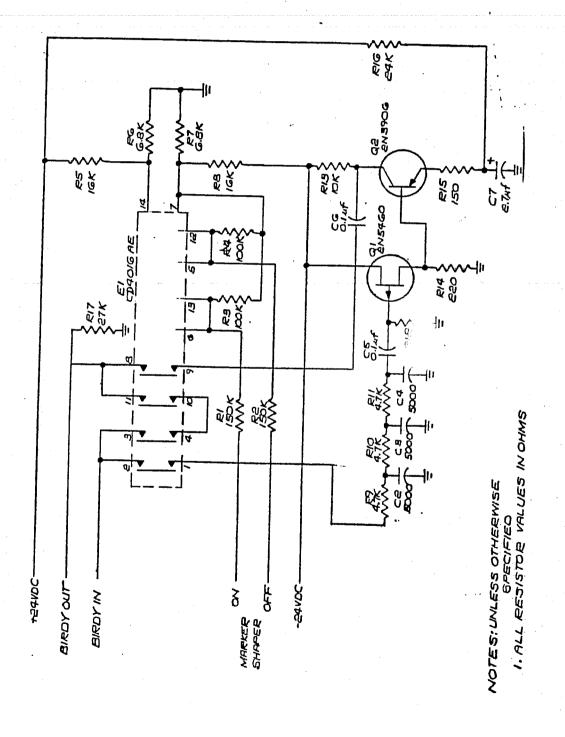




.

West Mall Engineers - WME



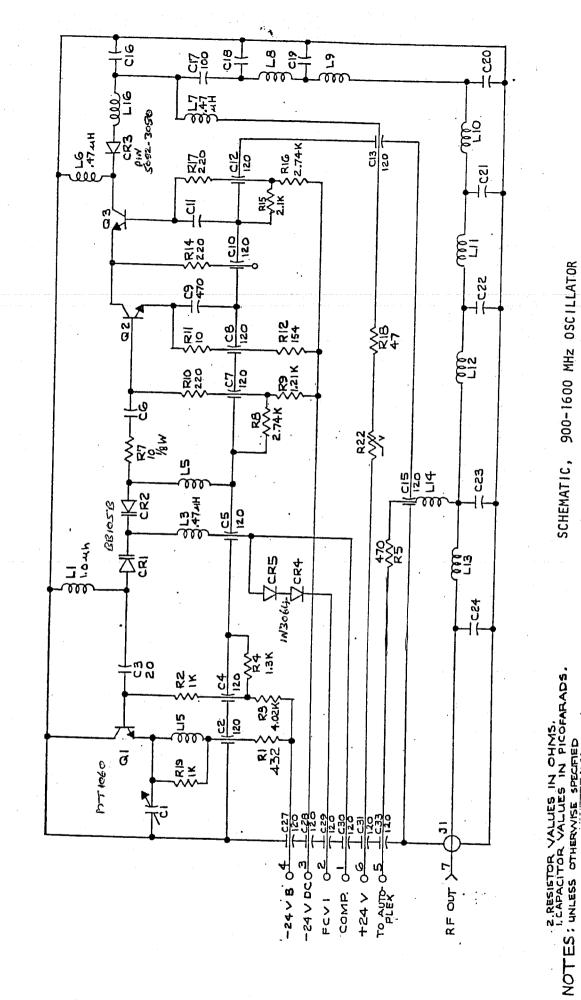


(a) (b)

国際社

MARKER SHAPER SCHEMATIC

B54-0477-01B

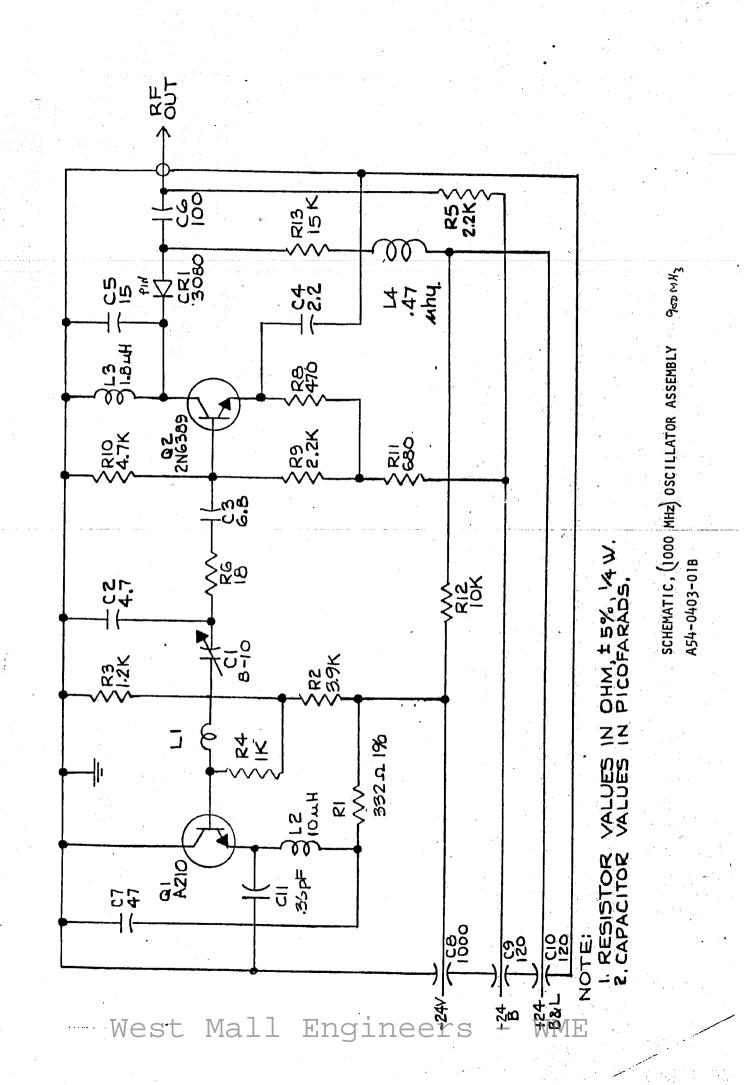


THE STATE OF THE S

14

SCHEMATIC, 900-1600 MHz OSCILLATOR B54-0281-01J

6-20

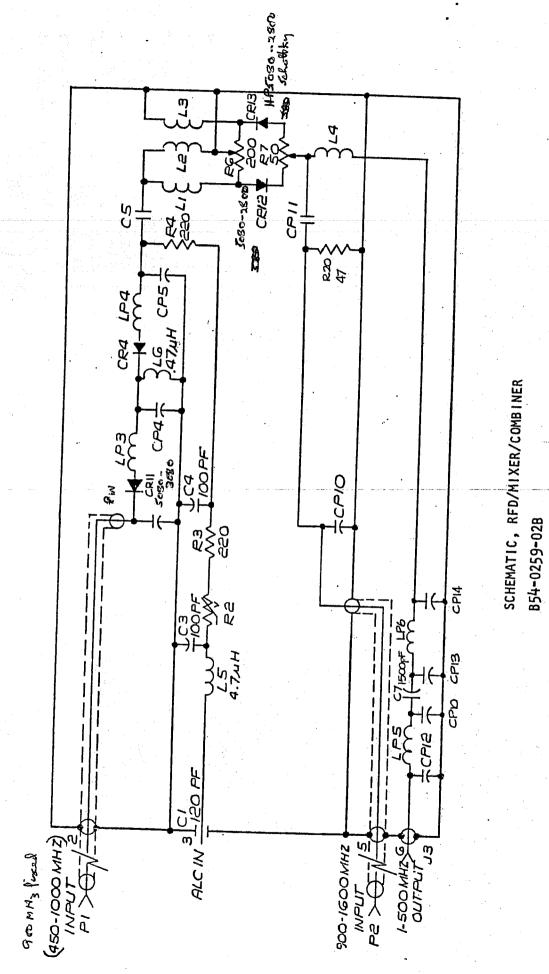


13年15日

....

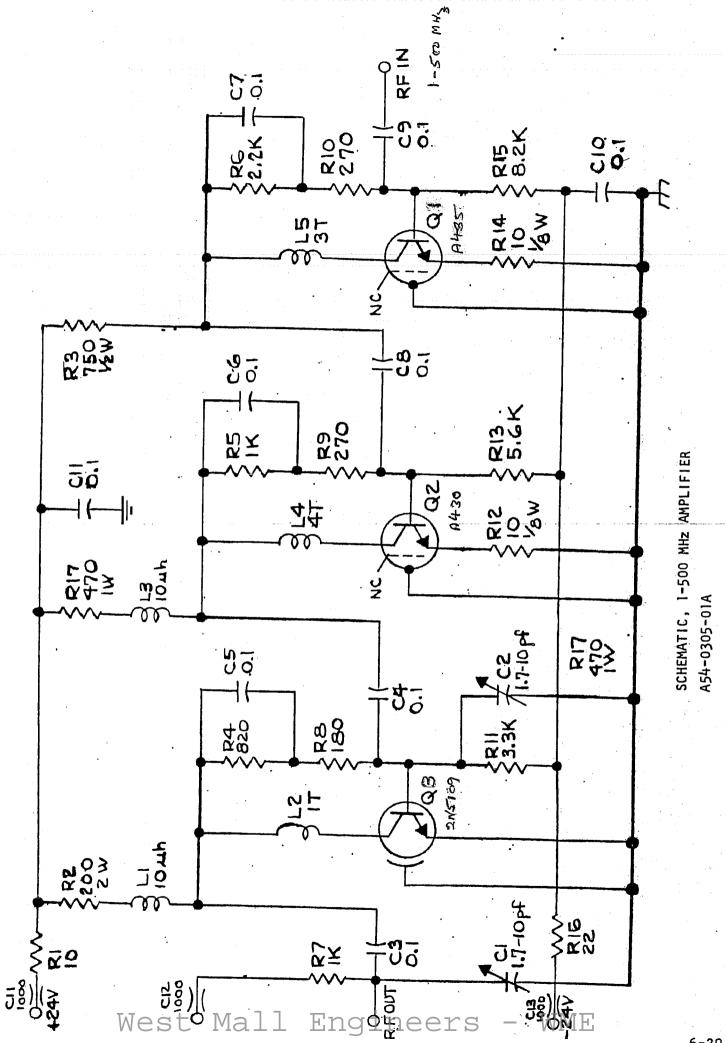
333 333

)



2

West Mall Engineers - WME

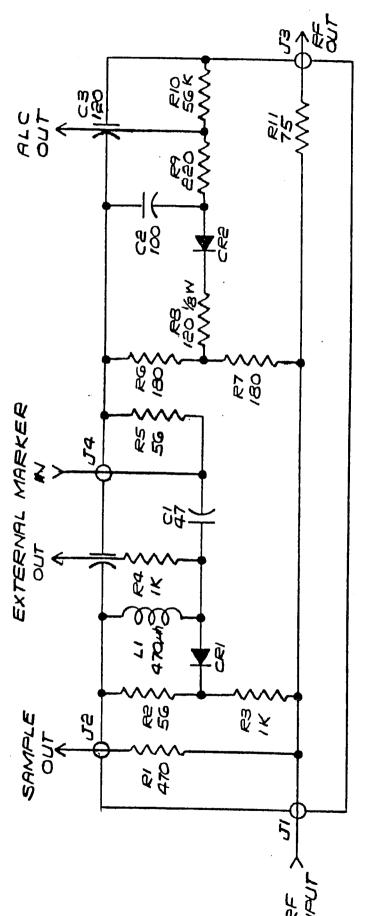


~ ~

X

Z

6-29



MONITOR MODULE SCHEMATIC, 1234A A54-0493-01

HMS ±5%,1/4 WATT FICOFARADS

NOTES: UNLESS OTHERWISE SPECIFIED I. RESISTOR VALUES IN OHMS ±5%, 1,

B.CAPACITOR VALUES IN . 3. DIODES TYPE INBER!

West Mall Engineers - WME

6-34