

1. AF ADJUSTMENT

- (1) Connect to 9V DC source.
- (2) Set AF GENERATOR frequency at 1KHz.
- (3) Adjusts VR102 and VR103 to maximum.
- (4) Adjusts AF GENERATOR output level for OP IC101 pin 10 out level to 640mV.
- (5) The AF GENERATOR output level is approx. 45mV to 55mV with load.
- (6) Adjusts VR101 to the modulation at 12 ± 1 KHz.
- (7) The modulation will not vary at source voltage down to 5.5V.

2. RF ADJUSTMENT

- (1) Tune TL302, TL303, TL304, and VC301, VC302 in order, for fundamental frequency to the maximum and harmonics to the minimum, then fine tune TL301 to meet carrier frequency.
- (2) If harmonics 5th and 6th is still high (refer to attached sheet), tune TL302 and TL304 alternatively to the harmonics strength less than -40dBm.
- (3) Second harmonic strength can be reduced by tuning TL303.
- (4) Harmonics 3th and 4th can be reduced by tuning VC301, VC302. Tune VC301 and VC302 alternatively for the fundamental strength to the maximum and harmonics to the minimum.
- (5) Loosen TL302 and tune again as procedure (4) to reduce the 3rd harmonic to the minimum.
- (6) All the harmonics should be tuned to less than -45dBc.