

TECHNICAL DESCRIPTION

- (1) Type or types of emission.----- 180KF3E
DUT input -34dBv because the input limiting level at $-54\text{dBv}@20\text{KHz}$
- (2) Frequency range----- $614\text{MHz}\sim 806\text{MHz}$
- (3) Range of operation power values:DUT has no power controls.
- (4) Maximum power rating----- <30 MilliWatts ERP.
- (5) DC Voltages and current into Final Amplifier:
FINAL AMPLIFIER ONLY
3.0V BATTERY
 $V_{ce}=4.6$ Volts
 $I_{ce}=10\text{mA}$.
- (6) Tune-up procedure:
The ANT test point connect to the RF power meter then tune VC1 and VC2 to made up RF output power and suppress the harmonics.
- (7) Description of any circuits or devices employed for suppression of spurious radiation, for limiting modulation, and for limiting power . There are no devices or circuitry to limit the power, since this is a lower power device. The interstage coupling between Q1 ,U5 ,Q3 ,Q4 and Q5 as well as the low pass filter made up of VC1,C115,L9,L10,C40,L11, &C41 suppress the harmonics.

Limiting Modulation:

The transmitter audio circuitry is contained in U10. The coupling between U10 ,U12 ,U1 ,U13 , and feedback to U15 and U16. The modulation limiting is also provided by U16.

Limiting Power:

There is no provision for limiting power.

Description of all circuitry and devices provided for determining and stabilizing frequency.

The transmitter frequency is control by a crystal , the crystal specifications are included in next page.