

TECHNICAL DESCRIPTION

(1) Type or types of emission. ---- 120KF3E.

DUT input -34dBv because the input limiting level at $-54\text{dBv}@20\text{KHz}$

(2) Frequency ----- $614\text{MHz}\sim 806\text{MHz}$.

(3) Range of operation power values: DUT has no power controls.

(4) Maximum power rating ----- $<30\text{ MilliWatts ERP}$.

(5) DC Voltages and current into Final Amplifier:

FINAL AMPLIFIER ONLY

3.0V BATTERY

$V_{ce}=4.6\text{Volts}$

$I_{ce}=10\text{mA}$.

(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 device 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.