ADVANCE DATA

MECHANICAL DATA

Envelope
Power Connector
RF Connectors
Cathode
Focusing
Cooling
Mounting Position
Weight (Approx.)

Metal Capsule
Winchester PM6S
Type TNC Jack
Philips Impregnated
Integral Permanent Magnet
Forced Air
Any

3 Pounds

ELECTRICAL DATA

HEATER CHARACTERISTICS

Voltage
Current (at 6.3 V)

6.3 \pm 10\% V
1.1 - 1.5 A

RATINGS (Absolute Maximum) \(^3\)

Collector Voltage with respect to Helix
Helix Voltage
Anode Voltage
Focus Electrode Voltage Range
-20 to -150 Vdc
Cathode Current
50 mA
Helix Current
8 mA
Anode Current
1 mA
CW rf Input
100 mW
Collector Temperature
150 °C

TYPICAL OPERATION \(^3\)

Conditions
Frequency
2.0 to 4.0 kMc
Collector Voltage with respect to Helix
150 Vdc
Helix Voltage (Approx.)\(^4\)
825 Vdc
Anode Voltage (Approx.)\(^4\)
500 Vdc
Focus Electrode Voltage\(^4\)
-45 Vdc

Characteristics
Collector Current
- 45 mA
Helix Current
- 7 mA
Anode Current
- 0.8 mA
RF Power Output (1 mW Input)
1 - W
Gain (1 mW Input)
30 - db

CIRCUIT DESIGN INFORMATION \(^5\)

Helix Voltage Range
700 to 900 Vdc
Anode Voltage Range
400 to 650 Vdc
Focus Electrode Voltage Range
-25 to -75 Vdc

from JEDEC release #2685, Jan. 4, 1960
NOTES:

1. The permanent magnet stack is designed to focus the tube properly at operating temperature; therefore, for stable operation and to prevent damaging the tube it is recommended that application of beam current be withheld until 15 minutes after application of the heater potential.

2. To maintain temperatures below the specified maxima it is recommended that a sufficient volume of cooling air (approximately 0.2 lbs/min at 26°C) be directed into one of the openings provided on the collector end of the tube.

3. All voltages given are with respect to cathode except where specified otherwise. For safety, pin F should be grounded.

4. Specific recommended operating voltage values supplied with each tube.

5. Ranges include values required as a result of initial spread in tube characteristics as well as those to accommodate changes throughout life.