

data service

6503

MECHANICAL

Max. Overall Length Max. Diameter Grid Ring Diameter

2 3/8 inches 1.000 inches

DATA

.745 ± .005 inches

CHARACTERISTICS AND RATINGS

ELECTRICAL RATINGS

6.3 Volts Heater Voltage (AC or DC) .405 amperes Heater Current (max) 350 volts Plate Voltage (max) DC 5 watts Plate Dissipation (max) 175°C Seal Temperature (max) 3300 megacycles Operating Frequency (max)

Direct Interelectrode Capacitance (max)

1.70 µµf Grid-plate 1.60 µµf Grid-cathode .030 րբք Plate-cathode

CHARACTERISTICS (1)

5650 micromhos Transconductance (max) 23

Application Factor (max)

TYPICAL OPERATING CONDITIONS

UHF OSCILLATOR CW

200 V dc Plate Voltage 25 mA Plate Current

100 ohms (approx.) Cathode Resistor (2)

3300 Mc Frequency Power Output (Avg.) 450 mW

NOTES:

(1) Test Conditions

180 V dc Plate Voltage 12 mA $R_k/I_b =$ 25 mA (2) Adjusted for plate current of

APPLICATION DATA

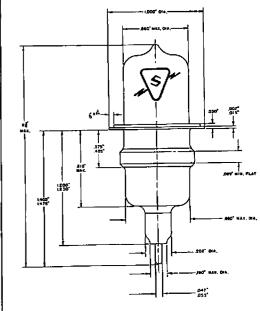
The 6503 is designed as an CW oscillator to 3300 Mcs. It functions as an extremely stable prime signal source or local oscillator. The Amerac* 192A type cavity is recommended.

* Amerac Incorporated, Wenham, Massachusetts

from JETEC release #1416, Feb. 14, 1955

QUICK REFERENCE DATA

The Sylvania Type 6503 was designed primarily for use as a cw oscillator at frequencies up to 3300 mc. The ruggedized anode ring of the 6503 suits it for applications involving shock and vibration.



SYLVANIA ELECTRIC PRODUCTS INC.