Standard Telephones and Cables Limited BRIMAR VALVE WORKS, FOOTSCRAY, SIDCUP, KENT, ENGLAND

RRIMAR

E. I. A.

REGISTRATION DATA

TYPE .	7495
DATE ISSUED	4.1.1961

TYPE 7495: R.F. POWER TETRODE

The 7495 is a nine pin all glass construction beam tetrode for use in V.H.F. amplifier and driver applications.

The use of a special rugged electrode construction manufactured by means of semi-automatic assembly techniques contributes to a low catastrophic failure rate.

The cathode sleeve is made of a special alloy to inhibit the growth of cathode interface resistance during long periods of operation under cut-off conditions and the pure tungsten heater has been designed to withstand frequent heater switching (see note). In addition, the heater cathode construction and materials ensure very low levels of leakage. throughout life.

The glass base and envelope strain patterns are tightly controlled during manufacture to prevent glass failures during life. Special attention is also given to the control of materials and processes to minimise variation of characteristics during life. A particular feature is the very low change in inter-electrode capacitances during life.

Note: A sample from each production lot is tested under the following elevated conditions to assess heater quality: - heater voltage 120% of noninal value: heater-cathode voltage 240V r.n.s: applied voltages cycled 1 minute on, 3 minutes off for 100 hours.

MECHANICAL DATA

from JEDEC release #3183, March 13, 1961

ELECTRICAL DATA

Interelectrode capacitances. (Measured without external shield) C_{ag}1 C in Heater: Voltage (ac or dc) 6.0 volts Current 0.75 amps Ratings - Absolute maximum values. Maximum heater-cathode voltage: Heater negative with respect to cathode 100 volts Heater positive with respect to cathode 100 volts Maximum anode voltage 300 volts RANGE OF CHARACTERISTIC VALUES FOR EQUIPMENT DESIGN. (At Zero hours) Test conditions v_a = 250V, v_{g3} =0, v_{g2} = 250V, v_{g1} = -7.5V. Bogey. Min. Max. Anode current 33 45 57 mΑ 7.0 Screen current mΑ 5.6 7.0 9.0 Mutual conductance mA/V Anode current at $V_{g1} = -15V$ 15 mΑ Amplification factor 16 13 20 Maximum value of cathode interface resistance throughout life under cut-off conditions..... 102.

SHEET 2 of 2.