



ELECTRONIC TUBE REFERENCE

7502

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

HEPTODE

Receiver oscillator-converter combining local oscillation and signal mixing for superheterodyne frequency conversion. Its multi-grid structure integrates the front-end frequency-changing functions in one envelope.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Heptode	
AMPLIFICATION FACTOR	1
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	110 V
MAXIMUM CATHODE CURRENT	15.5 mA
Primary electrical section; identical repeated sections compressed where applicable.	

The 7502 is a seven pin all glass construction heptode for use as a frequency changer up to 60 Mc/s. The use of a special rugred electrodcs construction manufactured by means of semi-automatic assembly technicues 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 {sec note) In addition the heater-cathode construction and materials ensure very low levels of leakage throughout life, The gless base and envelope strain pneatterns are tightly

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1954 STC Brimar

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1954 STC BRIMAR

Section 1 · Heptode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
as a frequency changer up to 60 Mc/s.	60 MHz	as a frequency changer up to 60 Mc/s.
voltage 120% of nominal value: heater—cathode voltage 240V r.n,s:	240 V	voltage 120% of nominal value: heater—cathode voltage 240V r.n,s:
Voltage (ac or dec) 6.3 volts	6.3 V	Voltage (ac or dec) 6.3 volts
Current 0¢3 amps	3 A	Current 0¢3 amps
Heater negative with respect to cathode seveeesseess 100 volts	100 V	Heater negative with respect to cathode seveeesseess 100 volts
Heater positive with respect to cathode seveeevssss 100 volts	100 V	Heater positive with respect to cathode seveeevssss 100 volts
Haximum cathode CUrrent e.ooooesessesrecsssscsssssvsesss 15.5 mA	15.5 mA	Haximum cathode CUrrent e.ooooesessesrecsssscsssssvsesss 15.5 mA
Meximum screen vOltage seesesessacsscscascsecsescscsessveoe 110 volts	110 V	Meximum screen vOltage seesesessacsscscascsecsescscsessveoe 110 volts
Screen current 5.2 75 9.8 mA	9.8 mA	Screen current 5.2 75 9.8 mA
Mutual conductance gm (osc.) 5.5 7425 9.0 mA/V	9 mA	Mutual conductance gm (osc.) 5.5 7425 9.0 mA/V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage sseeecsarevacrsssosnssccorcencnseeas 330 volts	330 V	Maximum anode voltage sseeecsarevacrsssosnssccorcencnseeas 330 volts

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