



ELECTRONIC TUBE REFERENCE

7499

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Rugged nine-pin all-glass pentode designed for video-amplifier applications. Special electrode, cathode, heater, and glass construction reduce catastrophic failure and support long cutoff periods, frequent heater switching, and low leakage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 750 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	2.5 W
Primary electrical section; identical repeated sections compressed where applicable.	

The 7499 is a nine pin all glass construction pentode for use in video arplifier spplications. The use of a special rugged electrode construction manufactured by means of semi-autonatic assembly techniques contributes to a low catastrophic failure rote, The cathode sleeve is made of a specizl alloy to inhibit the growth of cathode interface resistance during long pericds 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 The glass base and envelope strain patterns are tightly controlled during monufacture to prevent glass failures during life,

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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage 120% of nominal value: heater-cathode voltage 240V r.m.s	240 V	voltage 120% of nominal value: heater— cathode voltage 240V r.m.s
Voltage (ac or de) 6,3 volts	6.3 V	Voltage (ac or de) 6,3 volts
Current 0.75 amps,	750 mA	Current 0.75 amps,
Moximm anode VOLtaZe evvsevvieseesvovocenossnesneresass 300 vOlts	300 V	Moximm anode VOLtaZe evvsevvieseesvovocenossnesneresass 300 vOlts
Anode current 30 L0 50 mA	50 mA	Anode current 30 L0 50 mA
Anode current at Vgl = = 25V 10 ua	25 V	Anode current at Vgl = = 25V 10 ua

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maxirmm anode voltage (Iam0) vevevurveneessvsassocanesess 500 volts	500 V	Maxirmm anode voltage (Iam0) vevevurveneessvsassocanesess 500 volts
Maxdmum anode Alssipation c...evevseseveeeee seevenness. 12 watts	12 W	Maxdmum anode Alssipation c...evevseseveeeee seevenness. 12 watts
Maximum screen voltage (Igo=0) ovevvveerrrevnenienennnans, 500 volts	500 V	Maximum screen voltage (Igo=0) ovevvveerrrevnenienennnans, 500 volts
Maxirum soreen dissipation voveer viiiivinnirennnennnns 2.5 watts	2.5 W	Maxirum soreen dissipation voveer viiiivinnirennnennnns 2.5 watts

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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