

ELECTRONIC TUBE REFERENCE

7494

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Special-purpose rugged double triode engineered for reliable long-life operation in demanding electronic equipment, with construction intended to reduce catastrophic failures and maintain stable performance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	12.6 V / 150 mA	PARALLEL HEATER	6.3 V / 300 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	59000 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	95
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM CATHODE CURRENT	20 mA
Primary electrical section; identical repeated sections compressed where applicable.	

SECTION2 Triode	
PLATE RESISTANCE	59000 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	95
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Second physical triode section; electrically identical twin section.</i>	

The 7494 is a nine pin 211 glass construction double triode with independent sections for use in AJF. and control applications. The use of a special rugged electrode construction manufactured by means of semi-automatic assembly techniques contributes to 2 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 omeration 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

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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
nominal value: heater cathode voltage 240V r.n.s: applied voltages	240 V	nominal value: heater cathode voltage 240V r.n.s: applied voltages
Voltage (ac or dc) 12,6 6.3 volts	6.3 V	Voltage (ac or dc) 12,6 6.3 volts
Heater positive with respect to cathode sevceveows. 200 volts	200 V	Heater positive with respect to cathode sevceveows. 200 volts
Moxximium anode v0liagC secesesscconssasosoascssvassssssanss 330 Volta	330 V	Moxximium anode vOliagC secesesscconssasosoascssvassssssanss 330 Volta
inode current at Vg = ~5V. 35 uA	5 V	inode current at Vg = ~5V. 35 uA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum cathode current (Bach 8ection) cevesocssecssssss 20 mA	20 mA	Maximum cathode current (Bach 8ection) cevesocssecssssss 20 mA
Maximum anode voltage (Io50) cocevoseossasssssscacsaaes 550 vOLts	550 V	Maximum anode voltage (Io50) cocevoseossasssssscacsaaes 550 vOLts
Maximun snode dissipation (Dech scction) ceeceeseccsesse 1.1 watts	1.1 W	Maximun snode dissipation (Dech scction) ceeceeseccsesse 1.1 watts