

ELECTRONIC TUBE REFERENCE

CV4520

Triode - HV Shunt Regulator electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Rugged indirectly heated low-impedance triode designed for electronic stabilizer service under extreme shock and vibration.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.011 S
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM CATHODE CURRENT	125 mA
Promoted fields mapped semantically from printed ratings/characteristics headings.	

Indirectly heated low-impedance triode for stabilizer service under extreme shock and vibration.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PublishedData	6.3 V	6.3V INDIRECTLY HEATED MAY
*1 b 1.1	100 mA	*1 b 1.1 0.1 A
a	300 v	a 300 v
_vg	100 v	_vg 100 v
Py	15 w	Py 15 w
I	125 mA	I 125 mA
k (cathode positive)	250 v	-k (cathode positive) 250 v
*Vi-k (cathode negative)	100 v	*Vi-k (cathode negative) 100 v
Tp b	225 degC	Tp b 225 °C
1100 hours duration	5 g	1100 hours duration: 5.0 g
Shock (short duration)	500 g	Shock (short duration) : 500 g
range : -60 to +	85 degC	range : -60 to +85 °C
*For maximum reliability Vy, g should not exceed	10 V	*For maximum reliability Vy, g should not exceed 10V.

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Teg_all less a®	7.1 pF	Teg_all less a® 7.1pF #1.4pF Tea-all less g¢ 6:0PF #1.2pF
fega	9.5 pF	fega: 9.5pF 1.75pF
*Measured at	1 MHz	*Measured at 1Mc/s in an approved manuer,

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
H v, 150	100 v	H v, 150 100 v

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I 100	2 mA	I 100 2.0 mA
*Zm	11 %	*Zm 11.0 %2, 0% - mA/V
Ig (Rg—k =	500 k0hm	Ig (Rg—k = 500kQ
m	4.5 %	m 4.5 %1,0f - -
d vy	170 A	d vy 170 A
I,	100 mA	I, 100 mA
(iii) Vg 200	200 v	(iii) Vg 200 200 v
Vhok	250 v	Vhok - - 250 v
1,	100 mA	1, 100 mA
+	250 v	+250 v
Ao - (Bm at Vy=	86.3 V	- Ao - (Bm at Vy=86.3V) — (gp 8t V; =5.7V) x 100%
Bm = {Bm at V=	6.3 V	Bm = {Bm at V= 6.3V)
# ty 18 defined here as the time taken for I, to rise to	100 mA	# ty 18 defined here as the time taken for I, to rise to 100mA, from switching on
Vi = 6	3 V	Vi = 6. 3V throughout the heating time,

TUBE TINKER

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