



ELECTRONIC TUBE REFERENCE

CV6055

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled UHF disc-seal triode for pulsed oscillator and amplifier service to approximately 1 GHz. Its pulse ratings include exceptionally high plate voltage, reaching roughly 45 kV despite only 75 W average plate dissipation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 4 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.016 S
AMPLIFICATION FACTOR	22
MAXIMUM PLATE VOLTAGE	45000 V
MAXIMUM PLATE DISSIPATION	75 W
MAXIMUM CATHODE CURRENT	400 mA
Promoted fields mapped semantically from printed ratings/characteristics headings.	

Forced-air-cooled UHF disc-seal pulse triode for pulsed oscillator or amplifier service to 1000 MHz.

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
a pulsed oscillator or amplifier at frequencies up to	1000 MHz	a pulsed oscillator or amplifier at frequencies up to 1000Mc/s.
Va 6	-3 A	Va 6-3 A%
Va	45 kV	Va 45 kV
Va—g 4	-5 kV	Va—g 4-5 kV
—Vg	400 v	—Vg 400 v
—+ Vg(pk)	750 v	—+ Vg(pk) 750 v
PublishedData	75 W	75 W
Pe 2	0 W	Pe 2-0 W
ix(pk)	40 A	ix(pk) 40 A
Ix	400 mA	Ix 400 mA
*Tk(pulse)	10 A	*Tk(pulse) 10 A
1Tseal	140 degC	1Tseal 140 °C
f 500	1000 MHz	f 500 1000 Mec/s
Gain 11	8 dB	Gain 11 8 dB
For full rated anode dissipation in ambient temperatures up to	30 degC	For full rated anode dissipation in ambient temperatures up to 30°C, the air flow
The temperature of the glass to metal seals must not exceed	140 degC	The temperature of the glass to metal seals must not exceed 140°C. An air flow

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
cg—k: 10	-5 pF	cg—k: 10-5pF ; Cca—k : 0-3pF; Ccg—a : 6:5pF

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Va	500 A	Va 500 A%
Ia	100 mA	Ia 100 mA
gm	16 mA	gm 16 mA/[V

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