6559

MECHANICAL DATA

Envelope
Base 6 Prong Amp AN Type
Cathode Philips Impregnated
Magnetic Field Strength
Length of Magnetic Field
Mounting Position
Weight, approx. ¹ 1 Lb
Connectors BNC with 50 Ohm Coax Cable
Focusing Field ¹ Electromagnet
Cooling ²
Maximum Collector Temperature

ELECTRICAL DATA

. 8.0 Volts ac

HEATER	CHA	RACTE	RIS	П	CS
Heater	Voltage	$(\pm 10\%)$			_

Heater Current.	٠.								0.8 Amperes

RATINGS (Absolute Values)

Heater-Cathode Voltage									10	Volts	Max.
1st Anode Voltage									800	Volts	Max.
Helix Voltage									1000	Volts	Max.
Helix Current											
Collector Voltage									1000	Volts	Max.
Collector Dissipation									40	Watts	Max.
Focusing Electrode Voltage	e				-25	V	olts	to	+25	Volts	Max.
Helix Voltage to Ground									1000	Volts	Max.

CHARACTERISTICS

Frequency				 2.0	Km	: N	Iin.	to	4.0	Kmc	Max.
Cold Transmission Loss.									40	dЬ	Min.

TYPICAL OPERATION³

Frequency												3000 Mc
1st Anode Voltage												. 510 Volts
1st Anode Current												. 0 M a
Helix Voltage												. 800 Volts
Helix Current												
Collector Voltage .												. 850 Volts
Collector Current .												. 20 M a
Power Output												. 1 Watt
Operating Band to	3 d	ЬF	owe	er I	Poi	nts					2.1	to 3.9 Kmc
Gain												> 25 db
Noise Figure at Op	erat	ing	; Ba	nd	W	idt	h				•	< 30 db

NOTES:

- 1. Magnet not included, information on request.
- 2. Provided that the solenoid ID permits air circulation and that the temperature inside the solenoid is less than 50° C over the ambient.
- 3. Voltages given with respect to cathode. Any one element may be operated at capsule potential which should be ground.

QUICK REFERENCE DATA

The Sylvania Type 6559 is a traveling wave tube designed for cw or pulsed amplifier service over the frequency range 2000-4000 megacycles. Power output is approximately 1 watt.



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OUTLINE DRAWING

