

SYLVANIA ELECTRIC

RMA Registration Data

TYPE 5638

PENTODE VOLTAGE AMPLIFIER

MECHANICAL DATA

Style	subminiature
Cathode	coated, unipotential
Outline	(see Page 2)
Maximum Diameter	0.400 inch
Maximum Bulb Length	1.500 inches
Bulb	T-3
Base	subminiature button, flexible leads (see Page 2)
Lead Connections:	
Lead 1 .. plate	Lead 4 .. heater
Lead 2 .. cathode and grid #3	Lead 5 .. grid #2
Lead 3 .. grid #1	Lead 6 .. heater
Mounting Position	any
Maximum Acceleration ⁽¹⁾	1,000 G

ELECTRICAL DATA

GENERAL

Direct Interelectrode Capacitances

	<u>without shield</u>	<u>with shield</u> ⁽²⁾
Grid to Plate	0.22	0.19 $\mu\mu\text{f}$
Input	4.00	4.00 $\mu\mu\text{f}$
Output	3.00	6.50 $\mu\mu\text{f}$

Heater Voltage	6.3 volts
Heater Current	150 milliamps

RATINGS - - Design Center Values

Heater Voltage (ac or dc)	6.3 ($\pm 10\%$)	volts
Maximum Plate Voltage	150	volts
Maximum Screen Voltage	140	volts
Maximum Plate Dissipation	0.6	watt
Maximum Screen Dissipation	0.2	watt
Maximum Heater to Cathode Voltage	90	volts
Maximum Grid Circuit Resistance (self bias) ...	1	megohm

(1) Forces applied gradually, as in centrifuge, in direction of long axis of tube and such that internal structure is in tension.

(2) External shield of 0.405 inch diameter connected to cathode.

TYPE 5638

CHARACTERISTICS

Heater Voltage	6.3	volts
Plate Voltage (dc)	100	volts
Screen Voltage (dc)	100	volts
Self Bias Resistor	270	ohms
Plate Current	4.8	milliamps
Screen Current	1.25	milliamps
Transconductance	3,300	μ hos
Plate Resistance	150,000	ohms
Grid Bias for 10 μ amps Plate Current	-9.0	volts

