

TECHNICAL DATA

6K4

Sylvania

TYPE 6K4

GENERAL PURPOSE TRIODE

RATINGS

Heater Voltage (AC or DC) $\pm 10\%$	6.3	Volts
Maximum Plate Voltage	250	Volts
Maximum Heater to Cathode Voltage	90	Volts
Maximum Plate Dissipation (Open Air)	3.0	Watts
Maximum Cathode Current	20.0	Ma.

Direct Interelectrode Capacitances:

	Shielded*	Unshielded
Grid to Plate	2.4	2.4 $\mu\text{f.}$
Input	2.4	2.4 $\mu\text{f.}$
Output	3.8	0.8 $\mu\text{f.}$

*With a .405" diameter shield connected to cathode.

TYPICAL OPERATING CONDITIONS

Heater Voltage	6.3	Volts
Heater Current	150	Ma.
Plate Voltage	200	Volts
Grid Voltage*	Obtained from Self Bias Resistor of	
	680	Ohms
Plate Current	11.5	Ma.
Transconductance	3450	μmhos
Amplification Factor	16	
Plate Resistance	4650	Ohms
Grid Voltage for Plate Current Cut-Off to 10 $\mu\text{a.}$	-30	Volts

*Provides an operating bias of approximately 8.0 volts
Maximum grid circuit resistance should not exceed 1/2 megohm. Fixed bias operation is not recommended.

CIRCUIT APPLICATION

Sylvania Type 6K4 is designed for use in high frequency applications requiring a very small, light-weight tube, highly resistant to shock and vibration.

At frequencies of around 500 Mc., an output of approximately 3/4 Watt may be obtained when used in a suitable circuit.

from RMA release # 455D
Dec. 15, 1947

PHYSICAL SPECIFICATIONS

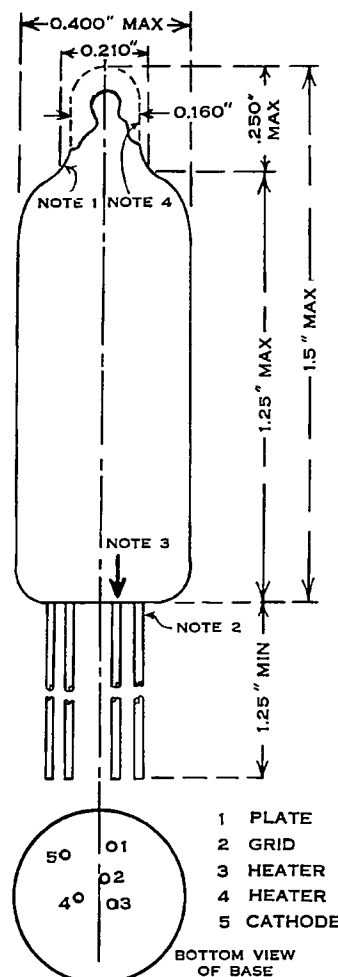
Style: Sub-Miniature

Bulb: T-3

Base: Flexible Leads

Dimensions: As per outline

Mounting Position: Any

Lead Connections: As per
outline

NOTE

- 1 REFERENCE DIAMETER FROM WHICH TIP & BULB LENGTHS ARE DETERMINED
- 2 LEADS SHOULD NOT BE SOLDERED CLOSER THAN 1/4 FROM BASE
- 3 ARROW INDICATES POSITION OF PLATE LEAD
- 4 ALL TIPS LIE WITHIN DOTTED LINES

OCTOBER 27, 1947

COMMERCIAL ENGINEERING DEPARTMENT
Sylvania Electric Products Inc., Emporium, Pennsylvania
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SYLVANIA TYPE 6K4 AVERAGE PLATE CHARACTERISTICS CONTROL GRID CURRENT -----

$E_F = 6.3$ VOLTS

PLATE OR GRID CURRENT IN MILLIAMPERES

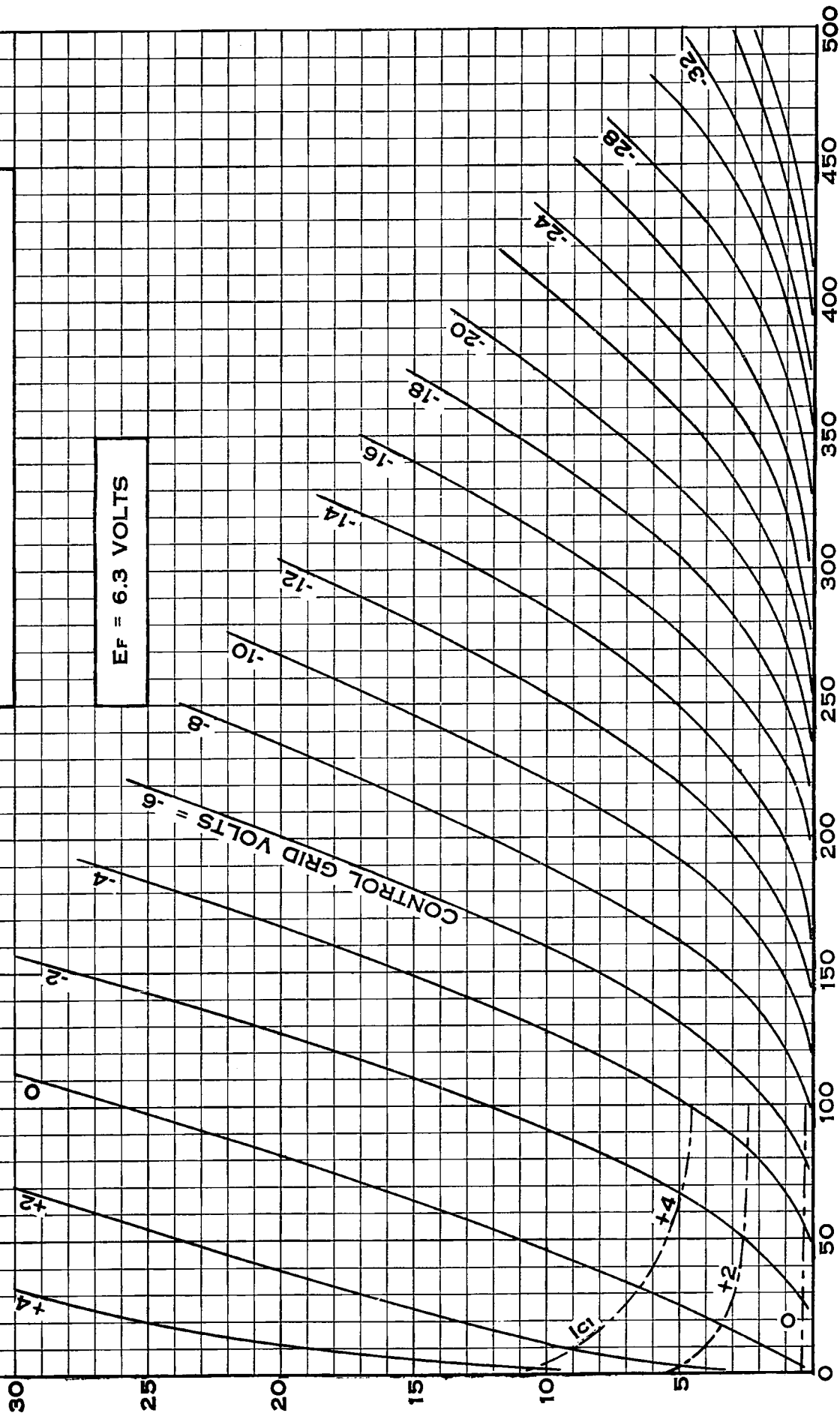


PLATE VOLTS