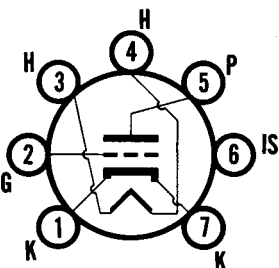


**SYLVANIA TYPES 6ER5
3ER5
2ER5**

VHF TRIODE



7FP

MECHANICAL DATA

Bulb.....	T-5 $\frac{1}{2}$
Base.....	E7-1, Miniature Button 7-Pin
Outline.....	5-2
Basing.....	7FP
Cathode.....	Coated Unipotential
Mounting Position.....	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

	2ER5	3ER5	6ER5
Heater Voltage.....	2.3	2.8	6.3 Volts
Heater Current.....	600	450	180 Ma
Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
Total D C and Peak.....	200	200	200 Volts Max.
Heater Positive with Respect to Cathode			
D C.....	100	100	100 Volts Max.
Total D C and Peak.....	200	200	200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES

	Shielded	Unshielded
Grid to Plate.....	0.36	0.38 $\mu\mu\text{f}$
Input.....	4.4	4.4 $\mu\mu\text{f}$
Output.....	4.0	3.0 $\mu\mu\text{f}$
Heater to Cathode.....	2.8	2.8 $\mu\mu\text{f}$
Grid to Cathode.....	3.1	3.1 $\mu\mu\text{f}$
Plate to Cathode.....	0.2	0.24 $\mu\mu\text{f}$
Grid to Heater.....	0.28	0.28 $\mu\mu\text{f}$ Max.

RATINGS (Design Center Values)

Supply Voltage.....	550 Volts Max.
Plate Voltage.....	250 Volts Max.
Plate Dissipation.....	2.2 Watts Max.
Cathode Current.....	20 Ma Max.
Negative Grid Voltage.....	50 Volts Max.
Grid Circuit Resistance	
Cathode Bias.....	1.0 Megohm Max.

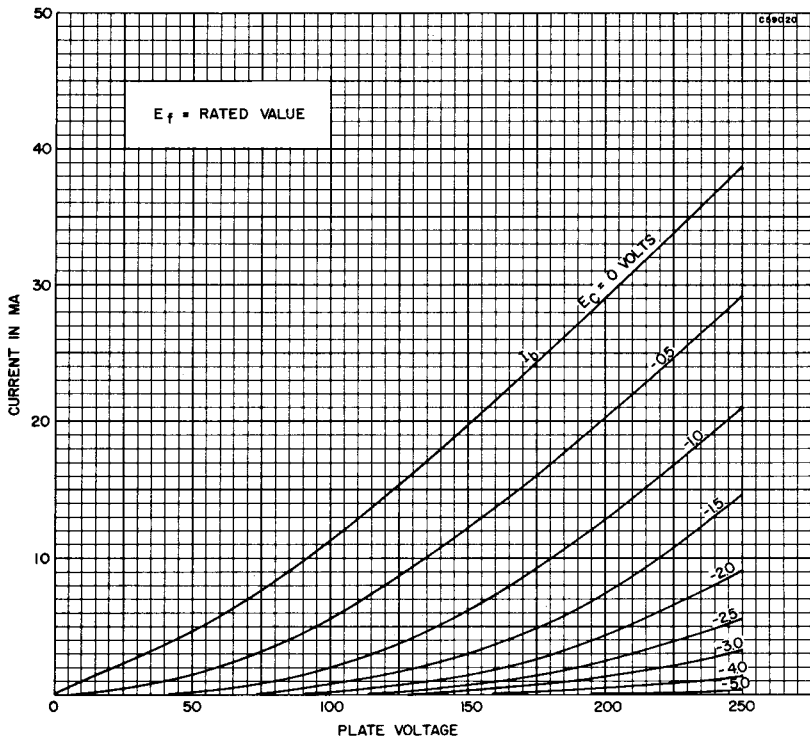
CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage.....	200 Volts
Grid Voltage.....	-1.2 Volts
Plate Current.....	10 Ma
Transconductance.....	10,500 μmhos
Amplification Factor.....	80
Plate Resistance.....	8000 Ohms
Ec1 for Gm = 500 μmhos	-3.8 Volts
Ec1 for Gm = 100 μmhos	-5.6 Volts

APPLICATION

The Sylvania Types 2ER5, 3ER5 and 6ER5 are semi-remote cutoff, frame grid, triodes designed for use as VHF RF amplifiers. Features of the design include: A partial shield between the grid and plate which lowers the capacitance between these two elements and promotes ease of neutralization and higher input impedance by virtue of dual cathode leads.

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS

