

GENERAL CHARACTERISTICSELECTRICAL DATA

	<u>Min.</u>	<u>Bogey</u>	<u>Max.</u>	
Heater Voltage(3)	---	6.3	---	volts
Heater Current	---	1.18	---	amperes
Amplification Factor	---	200	---	
Transconductance ($I_b = 30$ ma)	---	50000	---	micromhos
<u>Direct Interelectrode Capacitances</u>				
Grid to Plate	1.25	1.45	1.60	uuf
Grid to Shell(4)	8.5	11.2	17.0	uuf
Grid to Shell(4) Hot ($E_f = 6.1$ v; $E_b = 0$ v)	7.6	8.7	10.3	uuf
Plate to Shell(4)	---	.019	.050	uuf
Cathode to Shell	30	42.5	57	uuf

MECHANICAL DATA

Cathode	Unipotential
Mounting Position	Any
Weight, Approximate	1 ounce
Socket	(Equivalent to or). KS14134

MAXIMUM RATINGS, ABSOLUTE VALUES

Plate Voltage	270 volts
Grid Voltage	{ +1.5 volts
	{ -15.0 volts
Plate Current	33 milliamperes
Grid Current	15 milliamperes
Plate Dissipation	7.5 watts
Plate Seal Temperature	150° Centigrade
Grid Seal Temperature	100° Centigrade
Heater-Cathode Voltage	45 volts

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

Plate Voltage	200 volts
Plate Current	30 milliamperes
<u>Bias Circuit</u>	
Cathode Bias Resistor	260 ohms
Grid Supply Voltage	8 volts
Frequency	4000 megacycles
Gain (50 Milliwatts Output)	9 decibels
Gain (500 Milliwatts Output)	5 decibels
Band Width (3 db Down)	100 megacycles

Note (3): For optimum life, heater may be supplied from a source of 10.8 ± 0.2 volts through a circuit resistance of 4.16 ohms.

Note (4): Cathode connected to shell through cathode to shell capacitance.

Note (5): With the .750"-40 thread screwed into a guage having a thread with a .750"-40 class 1 fit, the .856", 1.070" and .180" diameters must fit in cylinders concentric with the .750"-40 thread and having diameters of .895" x .720" long; 1.135" x .157" long; and .210" x .375" long. Allowances for these tolerances must be made in any circuit design.