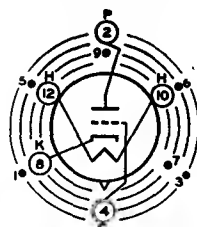


2EG4**HIGH-MU TRIODE**

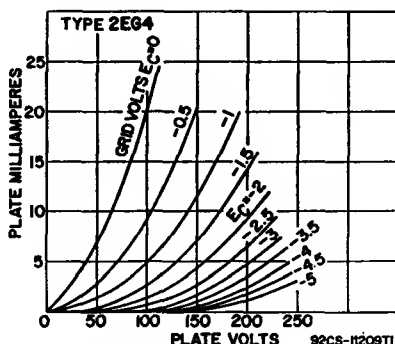
Nuvistor type used as a grounded-cathode, neutralized rf amplifier in vhf tuners of television and FM receivers. Outlines section, 1; requires nuvistor socket.



INDEX—LARGE LUG
●—SHORT PIN—IC

12AQ

Heater Voltage (ac/dc)	1.7	volts
Heater Current	0.6	ampere
Heater Warm-up Time (Average)	8	seconds
Peak Heater-Cathode Voltage	±100	volts

**Direct Interelectrode Capacitances (Approx.):**

Grid to Plate	0.92	pF
Grid to Cathode, Heater, and Shell	4.3	pF
Plate to Cathode, Heater, and Shell	1.8	pF
Plate to Cathode	0.18	pF
Heater to Cathode	1.6	pF

Class A₁ Amplifier**MAXIMUM RATINGS (Design-Maximum Values)**

Plate Supply Voltage	300°	volts
Plate Voltage	135	volts
Grid Voltage:		
Negative-bias value	55	volts
Peak or dc positive value	0	volts
Plate Dissipation	1.5	watts
Cathode Current	15	mA

CHARACTERISTICS AND TYPICAL OPERATION

	Characteristics	Typical Operation	
Plate Supply Voltage	110	70	volts
Grid Supply Voltage	—	0	volts
Cathode-Bias Resistor	130	—	ohms
Grid Resistor	—	47000	ohms
Amplification Factor	63	68	
Plate Resistance (Approx.)	7000	5440	ohms
Transconductance	9000	12500	μmhos
Grid Voltage (Approx.) for plate current of 100 μA	—5	—	volts
Grid Voltage (Approx.) for plate current of 10 μA	—6.8	—	volts
Plate Current	6.5	7	mA

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance:*		
For fixed-bias operation	2.2	megohms
For cathode-bias operation	0.5	megohm

* A plate supply voltage of 300 volts may be used provided that a sufficiently large resistor is used in the plate circuit to limit the plate dissipation to 1.5 watts under any condition of operation.

* For operation at metal-shell temperatures up to 135° C.