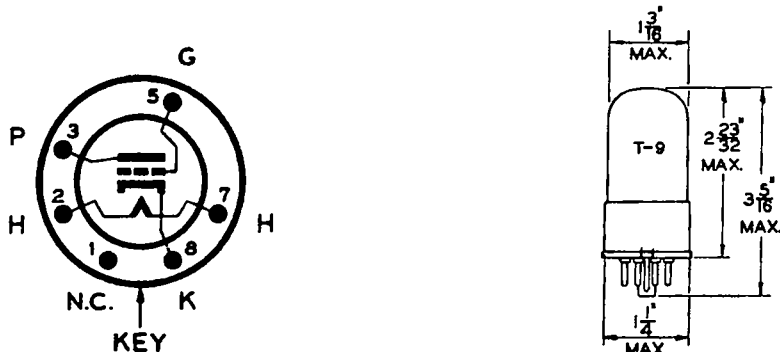


GENERAL DESCRIPTION

Application: The Ken-Rad 12J5GT is a cathode type general purpose amplifier triode designed for use in resistance coupled amplifiers or in super-heterodyne circuits as an oscillator. The high mutual conductance and low output capacitance make the tube especially suited for high frequency oscillator service. The 12J5GT is a glass tube equipped with a small octal base. The electrical characteristics of this type are identical to those of type 6J5GT except for heater requirements.

Physical Characteristics:Bottom ViewRATING AND CHARACTERISTICS**Heater:**

Voltage	12.6	Volts AC or DC
Current	.150	Ampere

Note: Voltage between heater and cathode should be kept at a minimum if direct connection is not possible.

Operating Conditions: (Class A Amplifier)

Plate Voltage	250	Volts	Max.
Grid Voltage	-8	Volts	
Plate Current	9.0	Milliamperes	
Plate Resistance	7700	Ohms	Approx.
Mutual Conductance	8600	Micromhos	Approx.
Amplification Factor	20		

Direct Interelectrode Capacitances:

Grid to Plate	3.4	μf.
Input	3.8	μf.
Output	3.3	μf.

from RMA release #169, March 28, 1939

Note: For characteristic curves refer to type 6J5G.

TRIODE

Coated unipotential cathode

Pin 8 - Cathode

Mounting position. any

Direct Interelectrode Capacitances**

```

**External shield #308 connected to pin #8.

```

Heater voltage	12.6	volts
Maximum plate voltage	300	volts
Maximum positive dc grid #1 voltage	0	volts
Maximum plate dissipation	2.5	watts
Maximum grid circuit resistance	1.0	megohm
Maximum heater-cathode voltage	90	volts
Maximum cathode current	20	ma

Heater voltage.	12.6	12.6	volts
Heater current.	150	150	ma
Plate voltage.	90	250	volts
Grid voltage	0	-8	volts
Amplification factor.	20	20	
Plate resistance.	6700	7700	ohms
Transconductance.	300	2600	μ mhos
Plate current	10	9	ma
Grid #1 voltage (approx.) for $I_b = 10 \mu a$	-7.0	-18	volts

Refer to "Interpretation of Receiving Tube Ratings"