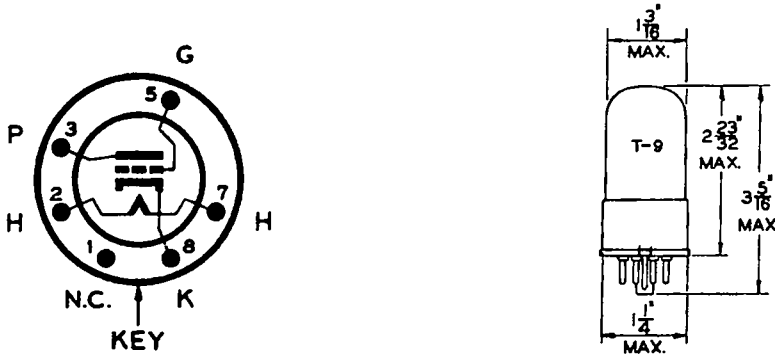




GENERAL DESCRIPTION

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 View

RATING 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	2600	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.

JETEC DATA
JOINT ELECTRON TUBE ENGINEERING COUNCIL
COMMITTEE ON RECEIVING TUBES

JETEC TYPE 12J5GT

TRIODE

MECHANICAL DATA

Coated unipotential cathode
Outline drawing. 9-11 or 9-41 Bulb. T-9
Base B5-82 or B6-8 . . . intermediate shell octal
. or B5-85 or B6-60 short intermediate shell octal
Maximum diameter 1-9/32"
Maximum overall length 3-5/16"
Maximum seated height. 2-3/4"
Pin connections. Basing 6A
*Pin 1 - No connection Pin 5 - Grid
Pin 2 - Heater Pin 7 - Heater
Pin 3 - Plate Pin 8 - Cathode
*Pin #1 omitted on Base Nos. B5-82 and B5-85.
Mounting position. any

ELECTRICAL DATA

Direct Interelectrode Capacitances**

Grid to plate: (g to p). 3.8 μ f
Input: g to (h+k). 4.2 μ f
Output: p to (h+k) 5.0 μ f

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

Ratings

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

Typical Operating Conditions and Characteristics, Class A1 Amplifier

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"