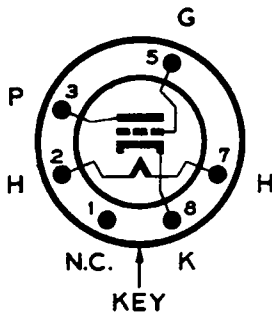




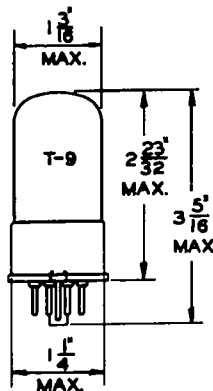
GENERAL DESCRIPTION

Application: The Ken-Rad 6P5GT is a cathode type triode recommended for use as detector, oscillator, or amplifier. It can be used as an audio amplifier in a resistance coupled stage or in a power driver stage transformer coupled to the output stage. The 6P5GT is a glass tube equipped with an octal base and has electrical characteristics identical to those of type 76.

Physical Characteristics:



Bottom View



RATINGS AND CHARACTERISTICS

Heater:

Voltage 6.3 Volts AC or DC  
Current .3 Ampere

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

AMPLIFIER OPERATION (CLASS A)

	<u>Transformer-Coupled</u>		<u>Resistance-Coupled</u>	
Plate Voltage	100	250 Max.	250*	Volts
Grid Voltage	-5	-13.5	-9	Volts
Plate Current	2.5	5.0	1 to 2	Milliamperes
Load Resistance	-	-	50,000 to 100,000	Ohms
Plate Resistance	12,000	9,500	-	Ohms
Amplification Factor	13.8	13.8	-	Ohms
Mutual Conductance	1,150	1,450	-	Micromhos

\* This is a plate supply voltage value. The voltage effective at the plate will be plate supply voltage minus the voltage drop in load caused by plate current. Voltage effective at plate should not exceed 250 volts.

DETECTOR OPERATION

	<u>Biased</u>		<u>Grid Leak</u>	
Plate Voltage	100	250 Max.	45	Volts
Grid Voltage	-8	-20	Return to Cathode	Volts (Approx.)
Plate Current	Adjusted to .2 ma. with no input signal.		-	-
Self-Bias Resistor	**	**	-	-
Grid Leak	-	-	1 to 5	Megohms
Grid Condenser	-	-	250	μf.

\*\* Not critical 30,000 to 150,000 ohms being suitable.

Direct Interelectrode Capacitances:

G-P	2.8	μf.
G-(F+K)	3.5	μf.
F-(F+K)	2.5	μf.

Note: For characteristic curves refer to type 76.