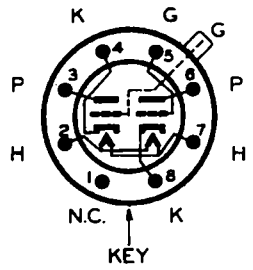
KEN-RAD- 6C8G

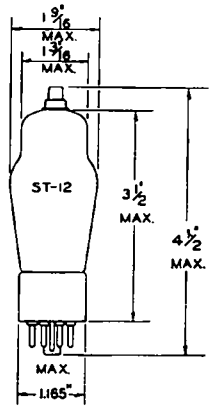
GENERAL DESCRIPTION

Application: The 6C8G is a cathode type double-triode designed for use as a voltage amplifier. The cathode, grid, and plate of each triode are brought out to individual connections so that a number of specialized functions are possible. It is especially recommended for phase inverter service in automobile receivers and other applications where heater current consumption must be held to a minimum. The 6C8G is a glass tube equipped with an octal base.

Physical Characteristics:



Bottom View



RATING 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.

CLASS A AMPLIFIER - ONE TRIODE

Plate Voltage	250	Volts Max.
Grid Voltage	-4.5	Volts
Plate Current	3.1	Milliamperes
Plate Resistance	26,000	Ohms
Mutual Conductance	1,450	Micromhos
Amplification Factor	38	

TYPICAL PHASE INVERTER OPERATION

*Plate Supply Voltage	250	250	Volts
Grid Voltage	-3.0	-3.0	Volts
Plate Current Per Triode	1.7	1.0	Milliamperes
Plate Load Resistor	50,000	100,000	Ohms
**Grid Return Resistance of Following Tubes	100,000	500,000	Ohms
Voltage Amplification	45	48	
Maximum Output Voltage	60	80	Volts RMS
***Self-Biasing Resistor	900	1,500	Ohms

*Effective plate voltage will be this value minus the voltage drop in the plate resistor.

**For values of voltage divider to inverter grid see figure on page 2.

***No by-pass condenser necessary in this application.

Direct Interelectrode Capacitances:

C_{G-P}	°2.4	°°2.5	µµf.
C_{G-K}	°2.5	°°3.4	µµf.
C_{P-K}	°3.9	°°3.5	µµf.
C_{G-G}		.1	µµf.
C_{P-P}		1.5	µµf.

°Values for triode having its grid brought out to the top cap.

°°Values for triode having its grid brought out to a base pin.