GENERAL DESCRIPTION

Application: The Ken-Rad 6AC5GT is a cathode type power amplifier triode. It may be used for operation in positive grid regions with a type 76 as a driver. The 6AC5GT 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 0.4 Ampere

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

STATIC AND DYNAMIC CHARACTERISTICS

Plate Voltage 250 Volts Max.
Grid Voltage +15 Volts
Plate Current 38 Milliamperes
Grid Current 5 Milliamperes
Plate Resistance 36,700 Ohms
Mutual Conductance 5,400 Microhms
Amplification Factor 125

CLASS B OPERATION WITH TWO TUBES

Plate Voltage 250 Max. Volts
Peak Plate Current (Per Tube) 110 Max. Milliamperes
Average Plate Dissipation 10 Max. Watts
Grid Voltage 0 Volts
Peak AF Voltage Grid to Grid 70 Volts
Zero-Signal DC Plate Current (Per Tube) 2.5 Milliamperes
Load Resistance (Plate to Plate) 10,000 Ohms
Power Output 8 Watts Approx.
Peak Input Power Applied between Grids 960 Milliwatts

DYNAMIC-COUPLLED POWER AMPLIFIER OPERATION

WITH TYPE 76 AS DRIVER

Plate Supply Voltage 250 Volts Max.
External Grid Voltage* 0 Volts
Plate Dissipation 10 Watts Max.
Plate Current 32 Milliamperes
Plate Current of Driver 5.5 Milliamperes
Input Signal to Driver 18.5 Volts RMS
Load Resistance 7,000 Ohms
Total Harmonic Distortion 10 Percent
Power Output** 3.7 Watts

*Bias voltage for both the 6AC5GT and driver is developed automatically by the dynamic-coupled connection. A 25,000 ohm resistor should be connected between grid and cathode of the power tube to prevent a current surge occurring when the tube is warming up. Total resistance in the type 76 grid circuit should not exceed 1 megohm.

** A power output of 4.3 watts may be obtained if the driver is operated up to the point of grid current flow. Distortion is approximately 16% under these conditions.

Note: The Ken-Rad Tube and Lamp Corporation assumes no liability for the use of the dynamic-coupled circuit.

Note: For characteristic curves refer to the Type 6AC50.