32L7-GT

Description and Rating

RECTIFIER-BEAM POWER AMPLIFIER

GENERAL DESCRIPTION

Principal Application: The 32L7-GT is a multipurpose tube, consisting of a beam power amplifier and half-wave rectifier. The tube is designed for use as the combined power rectifier and power amplifier in a-c/d-c receivers.

Cathodes: Coated Unipotential
Heater Voltage (A-C or D-C) 32.5 Volts
Heater Current 0.3 Ampere

Envelope: T-9, Glass
Base: 80-6, Intermediate Shell Octal 8-Pin
Mounting Position: Any

PHYSICAL DIMENSIONS

![Physical Dimensions Diagram]

TERMIAL CONNECTIONS

Pin 1 - Rectifier Cathode
Pin 2 - Heater
Pin 3 - Amplifier Plate
Pin 4 - Amplifier Grid Number 2 (Screen)
Pin 5 - Amplifier Grid Number 1
Pin 6 - Rectifier Plate
Pin 7 - Heater
Pin 8 - Amplifier Cathode and Beam Plates

BASING DIAGRAM

![Basing Diagram]

MAXIMUM RATINGS

RECTIFIER SECTION

A-C Plate Supply Voltage (RMS) 125 Volts
D-C Output Current 60 Milliamperes

AMPLIFIER SECTION (CLASS A1 AMPLIFIER)

Plate Voltage Screen Voltage Grid Number 1 Voltage Plate Resistance Transconductance Plate Current Screen Current Load Resistance Total Harmonic Distortion Second Harmonic Component Third Harmonic Component Maximum-Signal Power Output 90 Volts 90 Volts -5 Volts 15000 Ohms 6000 Micromhos 38 Milliamperes 3.0 Milliamperes 2600 Ohms 5.3 Per Cent 2.2 Per Cent 4.6 Per Cent 0.8 Watt

CHARACTERISTICS AND TYPICAL OPERATION

* The d-c resistance in the grid circuit should not exceed 0.5 megohm.