Electronic TUBE

KEN-RAD

32L7-GT

Description and Rating

RECTIFIER-BEAM POWER AMPLIFIER

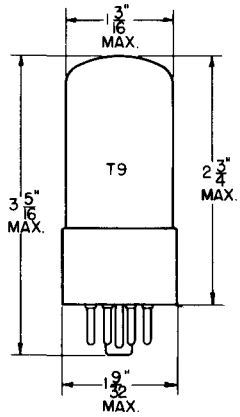
GENERAL DESCRIPTION

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: . . . . . B8-6, Intermediate Shell Octal 8-Pin
Mounting Position: . . . . . Any

PHYSICAL DIMENSIONS

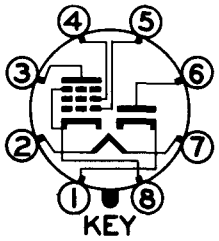


RMA 9-11

TERMINAL 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



RMA 8Z
BOTTOM VIEW

MAXIMUM RATINGS

DESIGN CENTER VALUES:

RECTIFIER SECTION

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

CHARACTERISTICS AND TYPICAL OPERATION

AMPLIFIER SECTION (CLASS A_1 AMPLIFIER)

Plate Voltage	90	90	Volts
Screen Voltage	90	90	Volts
Grid Number 1 Voltage*	-5	-7	Volts
Plate Resistance	15000	17000	Ohms
Transconductance	6000	4800	Micromhos
Plate Current	38	27	Milliamperes
Screen Current	3.0	2.0	Milliamperes
Load Resistance	2600	2600	Ohms
Total Harmonic Distortion	5.3	9.0	*Per Cent*
Second Harmonic Component	2.2	6.5	Per Cent
Third Harmonic Component	4.6	5.5	Per Cent
Maximum-Signal Power Output	0.8	1.0	Watt

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

Tube Divisions, Electronics Department

GENERAL ELECTRIC

Schenectady, N. Y.