Electronic TUBE
KEN-RAD

35B5

Description and Rating

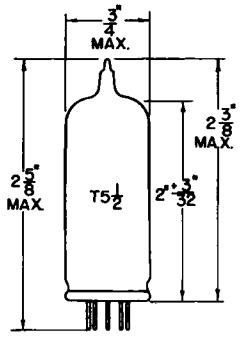
BEAM POWER AMPLIFIER

GENERAL DESCRIPTION

Principal Application: The 35B5 is a miniature beam power amplifier especially designed for use in the power output stage of a-c/d-c receivers. Its small size and high efficiency make the tube especially useful where space limitations prevent the use of larger types. Electrically the 35B5 is similar to the 35L6-GT.

Cathode	Coated Unipotential	
Heater Voltage (A-C or D-C)	35.0	Volts
Heater Current	0.15	Ampere
Envelope	T-5½	Glass
Base	E7-1, Miniature Button 7-Pin	
Mounting Position		Any
Direct Interelectrode Capacitances (Approx):*		
Grid Number 1 to Plate	0.4	μμf
Input	11	μμf
Output	6.5	μμf

PHYSICAL DIMENSIONS

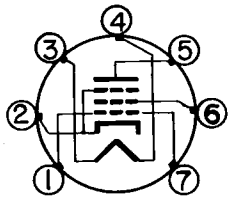


RMA 5-3

TERMINAL CONNECTIONS

Pin 1 - Grid Number 1
Pin 2 - Cathode and Grid Number 3
Pin 3 - Heater
Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Grid Number 2 (Screen)
Pin 7 - Grid Number 1

BASING DIAGRAM



RMA 7BZ
BOTTOM VIEW

MAXIMUM RATINGS

DESIGN CENTER VALUES:

Plate Voltage	117	Volts
Screen Voltage	117	Volts
Plate Dissipation	4.5	Watts
Screen Dissipation	1.0	Watt
Peak Heater-Cathode Voltage	150	Volts
Grid Number 1 Circuit Resistance		
For Fixed Bias	0.1	Megohm
For Cathode Bias	0.5	Megohm

CHARACTERISTICS AND TYPICAL OPERATION

CLASS A_1 AMPLIFIER

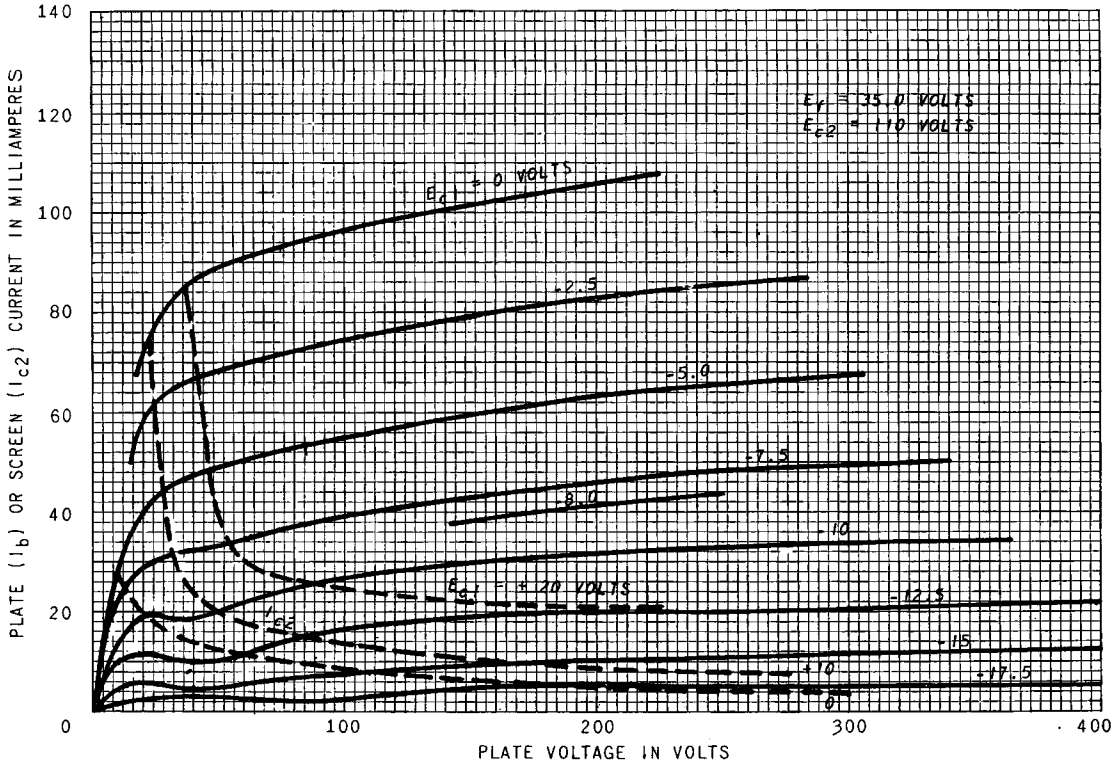
Plate Voltage	110	Volts
Screen Voltage	110	Volts
Grid Number 1 Voltage	-7.5	Volts
Peak A-F Grid Number 1 Voltage	7.5	Volts
Transconductance	5800	Micromhos
Zero-Signal Plate Current	40	Milliamperes
Maximum-Signal Plate Current	41	Milliamperes
Zero-Signal Screen Current	3.0	Milliamperes
Maximum-Signal Screen Current	7.0	Milliamperes
Load Resistance	2500	Ohms
Total Harmonic Distortion	10	Per Cent
Maximum-Signal Power Output	1.5	Watts

* *Without external shield*

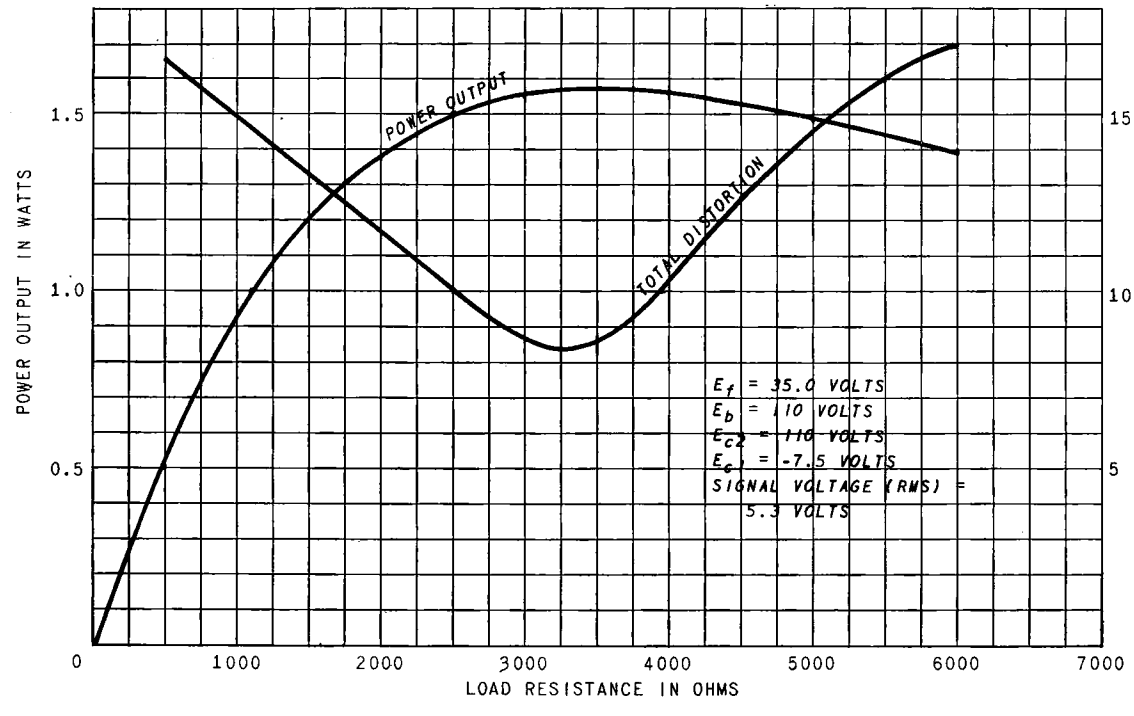
GENERAL ELECTRIC

Supersedes ET-T454 dated 1-47

AVERAGE PLATE CHARACTERISTICS



OPERATION CHARACTERISTICS



Tube Divisions, Electronics Department

GENERAL ELECTRIC

Schenectady, N. Y.