Electronic TUBES

1A5-GT

POWER-AMPLIFIER PENTODE

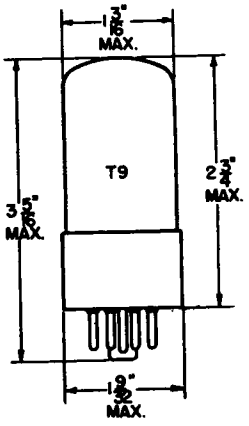
DESCRIPTION AND RATING

GENERAL DESCRIPTION

Principal Application: The 1A5-GT is a filament type power-amplifier pentode designed for use in the output stage of low drain battery operated equipment. The 1A5-GT may be operated singly or in push-pull combination.

Cathode	Coated Filament	Envelope	T-9 Glass
Filament Voltage (D-C)	1.4 Volts	Base	B7-7 Intermed Shell Octal 8-Pin Phenolic
Filament Current	0.05 Ampere	Mounting Position	Any

PHYSICAL DIMENSIONS

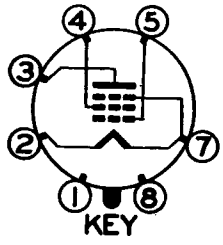


RMA 9-11

TERMINAL CONNECTIONS

Pin 1 - No Connection
Pin 2 - Positive Filament
Pin 3 - Plate
Pin 4 - Grid Number 2 (Screen)
Pin 5 - Grid Number 1
Pin 7 - Negative Filament and Grid Number 3
Pin 8 - No Connection

BASING DIAGRAM



RMA 6X
BOTTOM VIEW

MAXIMUM RATINGS

	Design Center	Absolute	
Plate Voltage	110	120	Volts
Screen (Grid Number 2) Voltage	110	120	Volts
Zero-Signal Cathode Current	6.0	6.6	Milliamperes

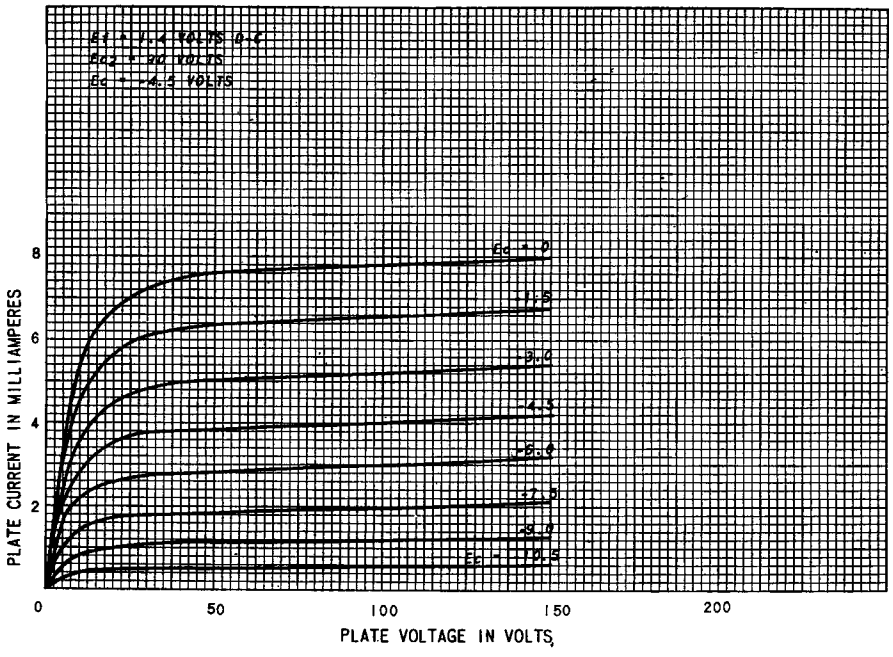
CHARACTERISTICS AND TYPICAL OPERATION

CLASS A AMPLIFIER

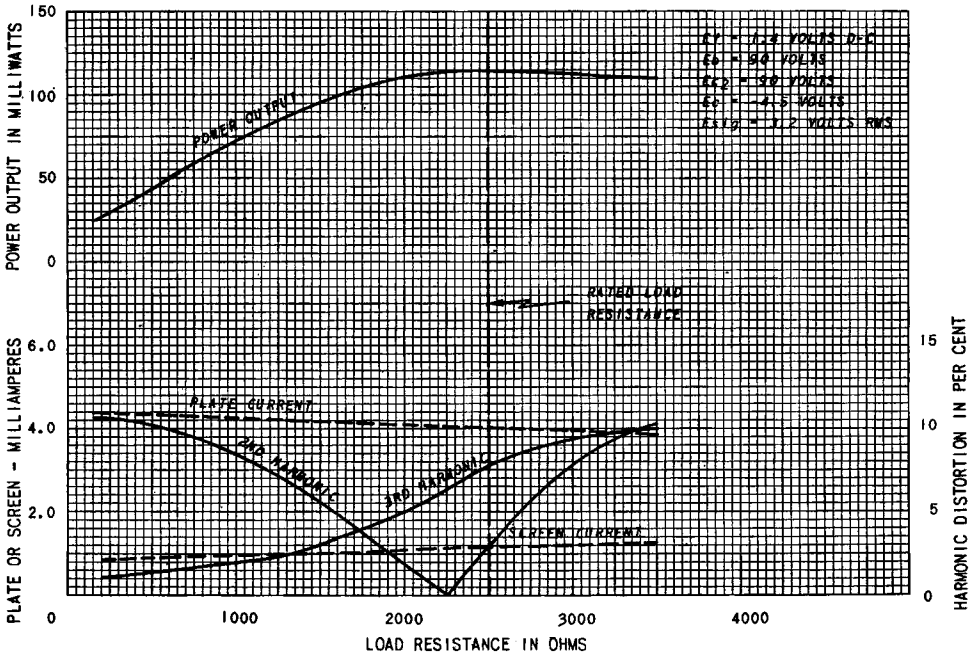
Filament Voltage (D-C)	1.4	1.4	Volts
Plate Voltage	85	90	Volts
Screen Voltage	85	90	Volts
Grid Bias Voltage *	-4.5	-4.5	Volts
Peak A-F Grid Voltage	4.5	4.5	Volts
Plate Resistance (Approx)	0.3	0.3	Megohm
Transconductance	800	850	Micromhos
Zero-Signal Plate Current	3.5	4.0	Milliamperes
Zero-Signal Screen Current	0.7	0.8	Milliamperes
Maximum-Signal Plate Current	3.5	4.0	Milliamperes
Maximum-Signal Screen Current	1.0	1.1	Milliamperes
Load Resistance	25000	25000	Ohms
Total Harmonic Distortion	10	7	Per Cent
Maximum-Signal Power Output	100	115	Milliwatts

** Preferably self-biased so grid bias will be reduced as the B-supply voltage falls off during battery life.*

AVERAGE PLATE CHARACTERISTICS



OPERATION CHARACTERISTICS



TUBE DEPARTMENT

GENERAL ELECTRIC

Schenectady 5, N. Y.