

47

Description and Rating

POWER-AMPLIFIER PENTODE

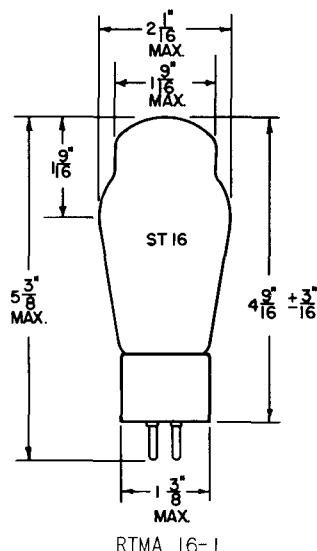
GENERAL DESCRIPTION

Principal Application: The 47 is a power amplifier pentode designed for use either singly or in push-Cathode Coated Filament
Filament Voltage (A-C or D-C) 2.5 Volts
Filament Current 1.75 Amperes

pull in the output stage of home receivers.

Envelope ST-16, Glass
Base A5-11, Medium 5-Pin
Mounting Position * Vertical

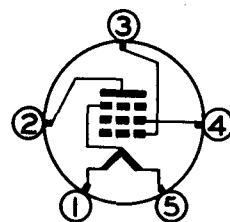
PHYSICAL DIMENSIONS



TERMINAL CONNECTIONS

Pin 1 - Filament
Pin 2 - Plate
Pin 3 - Grid Number 1
Pin 4 - Grid Number 2 (Screen)
Pin 5 - Filament

BASING DIAGRAM



RTMA 5B
BOTTOM VIEW

DESIGN CENTER VALUES

Plate Voltage	250	Volts
Screen Voltage	250	Volts
Grid Number 1 Circuit Resistance:		
With Fixed Bias	0.1	Megohm
With Cathode Bias	0.5	Megohm

MAXIMUM RATINGS

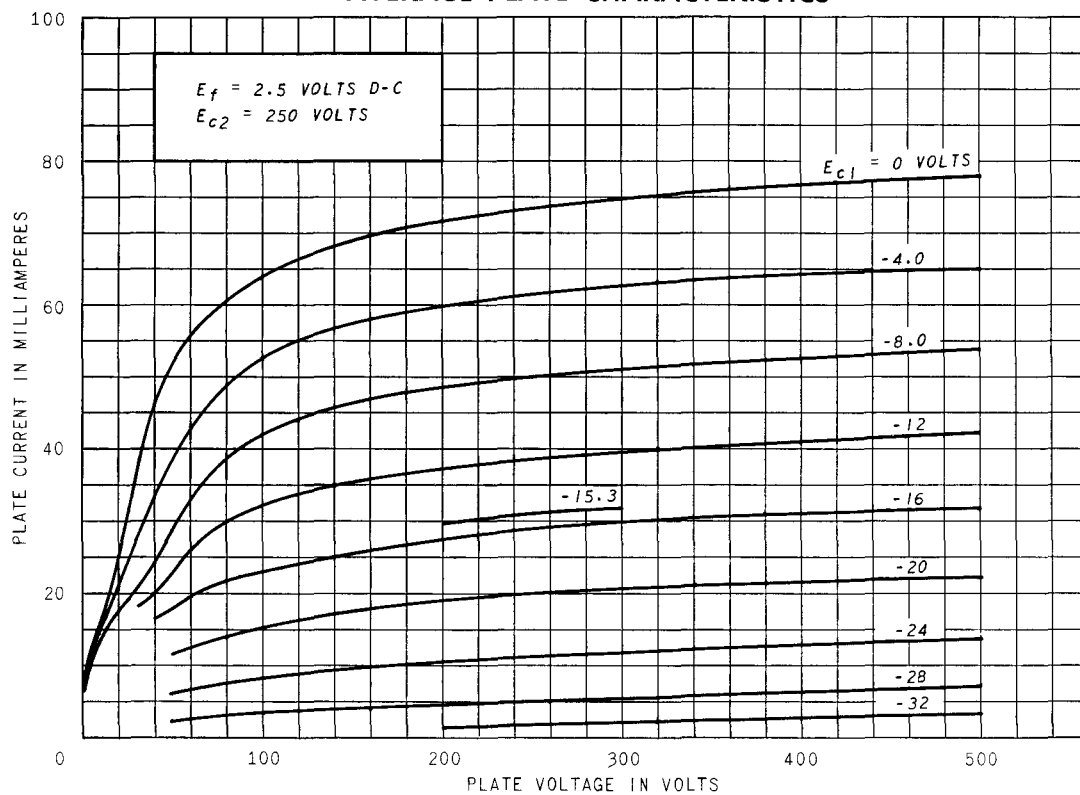
CLASS A₁ AMPLIFIER

Plate Voltage	250	Volts
Screen Voltage	250	Volts
Grid Number 1 Voltage #	-15.3	Volts
Amplification Factor	150	
Plate Resistance (Approx)	60000	Ohms
Transconductance	2500	Micromhos
Plate Current	31	Milliamperes
Screen Current	6	Milliamperes
Load Resistance	7000	Ohms
Total Harmonic Distortion (Approx)	6	Per Cent
Power Output	2.7	Watts

* Horizontal operation permitted if pins 1 and 5 are in a vertical plane

If filament is operated on a-c, the grid voltage should be -16.5 volts

AVERAGE PLATE CHARACTERISTICS



TUBE DEPARTMENT

GENERAL  **ELECTRIC**

Schenectady 5, N. Y.