

12A6

Description and Rating

BEAM POWER AMPLIFIER

GENERAL DESCRIPTION

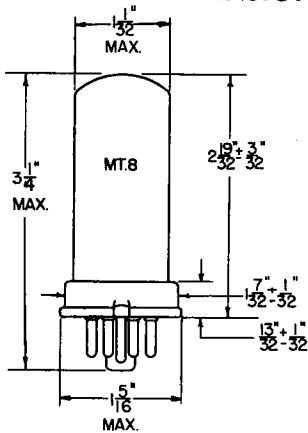
Principal Application: The 12A6 is a heater-cathode type beam-power amplifier tube designed for use in

Cathode: Coated Unipotential
 Heater Voltage (A-C or D-C) 12.6 Volts
 Heater Current 0.15 Ampere
 Envelope: VT-8 Metal Shell
 Base: B7-22 Small Wafer Octal 7-Pin Phenolic

the audio-output stage of a-c or a-c/d-c receivers.

Mounting Position: Any
 Direct Interelectrode Capacitances: *
 Grid to Plate 0.3 μ f
 Input 8.0 μ f
 Output 9.0 μ f

PHYSICAL DIMENSIONS

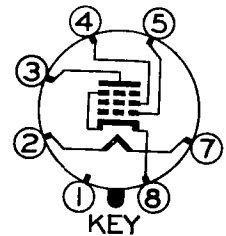


RMA B-6

TERMINAL CONNECTIONS

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

BASING DIAGRAM



RMA 7AC
BOTTOM VIEW

MAXIMUM RATINGS

	Design Center	Absolute	
Plate Voltage	250	275	Volts
Screen (Grid Number 2) Voltage	250	275	Volts
Plate Dissipation	7.50	8.25	Watts
Screen Dissipation	1.50	1.65	Watts
D-C Heater-Cathode Voltage #	90	100	Volts

CLASS A AMPLIFIER

CHARACTERISTICS AND TYPICAL OPERATION

Heater Voltage	12.6	Volts
Plate Voltage	250	Volts
Screen (Grid Number 2) Voltage	250	Volts
Grid Bias Voltage **	-12.5	Volts
Peak A-F Grid Voltage	12.5	Volts
Plate Resistance (Approx)	70000	Ohms
Transconductance	3000	Micromhos
Zero-Signal Plate Current	30	Milliamperes
Zero-Signal Screen Current (Approx)	3.5	Milliamperes
Maximum-Signal Plate Current	32	Milliamperes
Maximum-Signal Screen Current (Approx)	5.5	Milliamperes
Load Resistance	7500	Ohms
Total Harmonic Distortion	7	Per Cent
Maximum-Signal Power Output	3.4	Watts

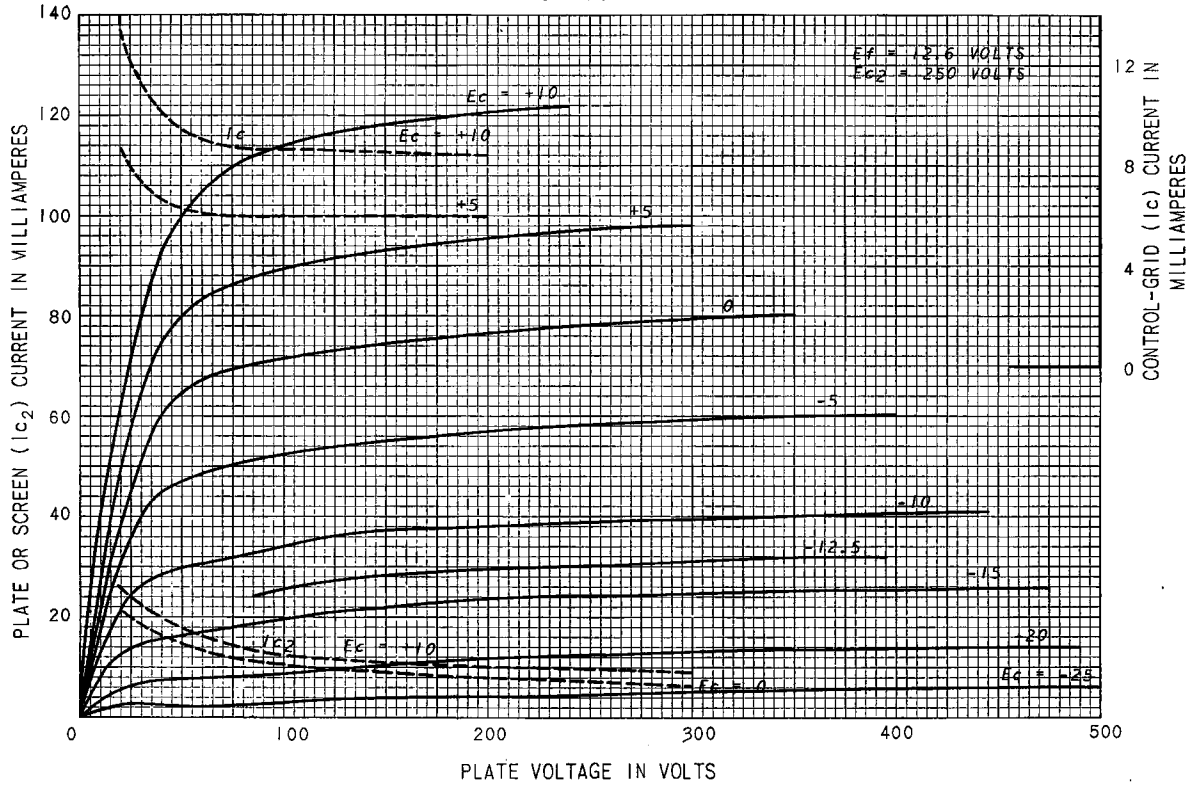
* Approximate values with shell connected to cathode.

Direct connection between heater and cathode is recommended.

** The d-c resistance in the grid circuit under rated maximum conditions should not exceed 0.1 megohm for fixed bias operation and 0.5 megohm for cathode bias operation.

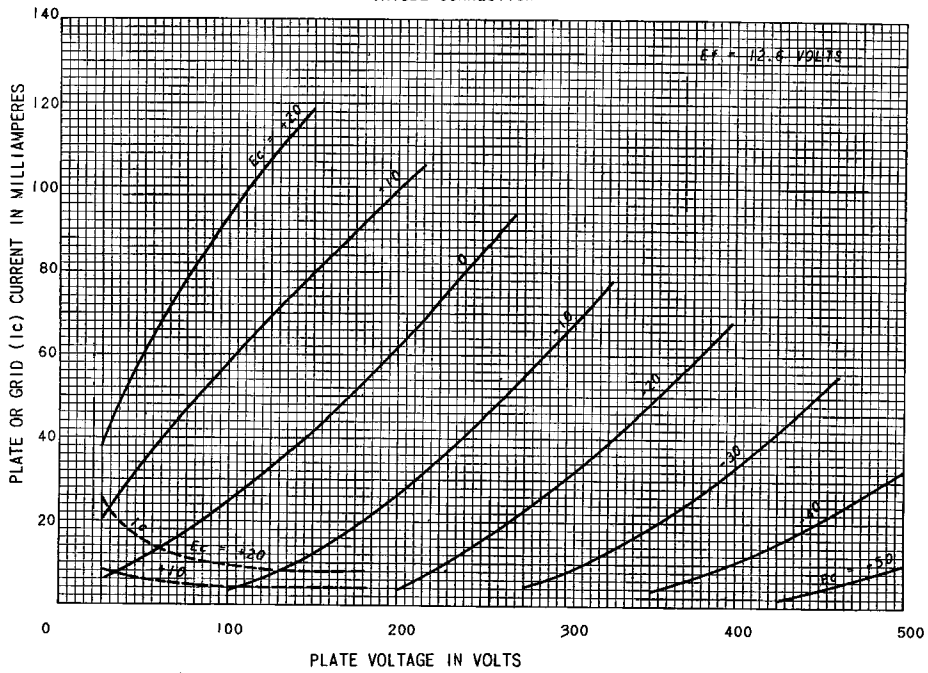
AVERAGE PLATE CHARACTERISTICS

PENTODE CONNECTION



AVERAGE PLATE CHARACTERISTICS

TRIODE CONNECTION



OPERATION CHARACTERISTICS

