

58

Description and Rating

RADIO-FREQUENCY-AMPLIFIER PENTODE

GENERAL DESCRIPTION

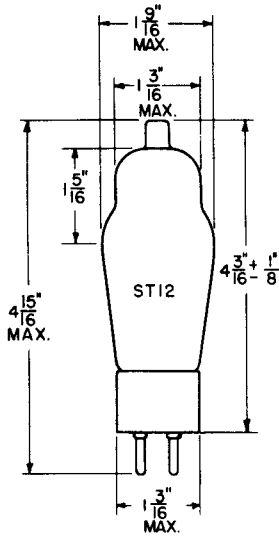
Principal Application: The 58 is a heater-cathode type pentode with remote cut-off characteristics and is designed for service as a radio-frequency or intermediate-frequency amplifier in a-c or battery

Cathode: Coated Unipotential
 Heater Voltage (A-C or D-C) 2.5 Volts
 Heater Current 1.0 Ampere
 Envelope: ST-12 Glass
 Base: A6-7 Small 6-Pin Phenolic
 Top Cap: CI-1 Small Metal

operated equipment. Except for capacitances and heater rating the electrical ratings and characteristics of the 58 are the same as those of the 6D6 and 6U7-G.

Mounting Position: Any
 Direct Interelectrode Capacitances: *
 Grid to Plate (Max) 0.007 $\mu\mu\text{f}$
 Input 4.7 $\mu\mu\text{f}$
 Output 6.3 $\mu\mu\text{f}$

PHYSICAL DIMENSIONS

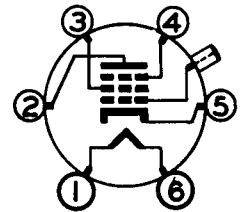


RMA 12-2

TERMINAL CONNECTIONS

- Pin 1 - Heater
- Pin 2 - Plate
- Pin 3 - Grid Number 2 (Screen)
- Pin 4 - Grid No. 3 (Suppressor)
- Pin 5 - Cathode and Internal Shield
- Pin 6 - Heater
- Top Cap - Grid Number 1

BASING DIAGRAM



RMA 6F
BOTTOM VIEW

MAXIMUM RATINGS

	Design Center	Absolute	
Plate Voltage	300	330	Volts
Screen (Grid Number 2) Voltage	100	110	Volts
Screen Supply Voltage	300	330	Volts
Grid Bias Voltage	Never Positive		
Plate Dissipation	2.25	2.48	Watts
Screen Dissipation	0.25	0.28	Watt
D-C Heater-Cathode Voltage	90	100	Volts

* With close-fitting external shield connected to cathode and internal shield.

CHARACTERISTICS AND TYPICAL OPERATION

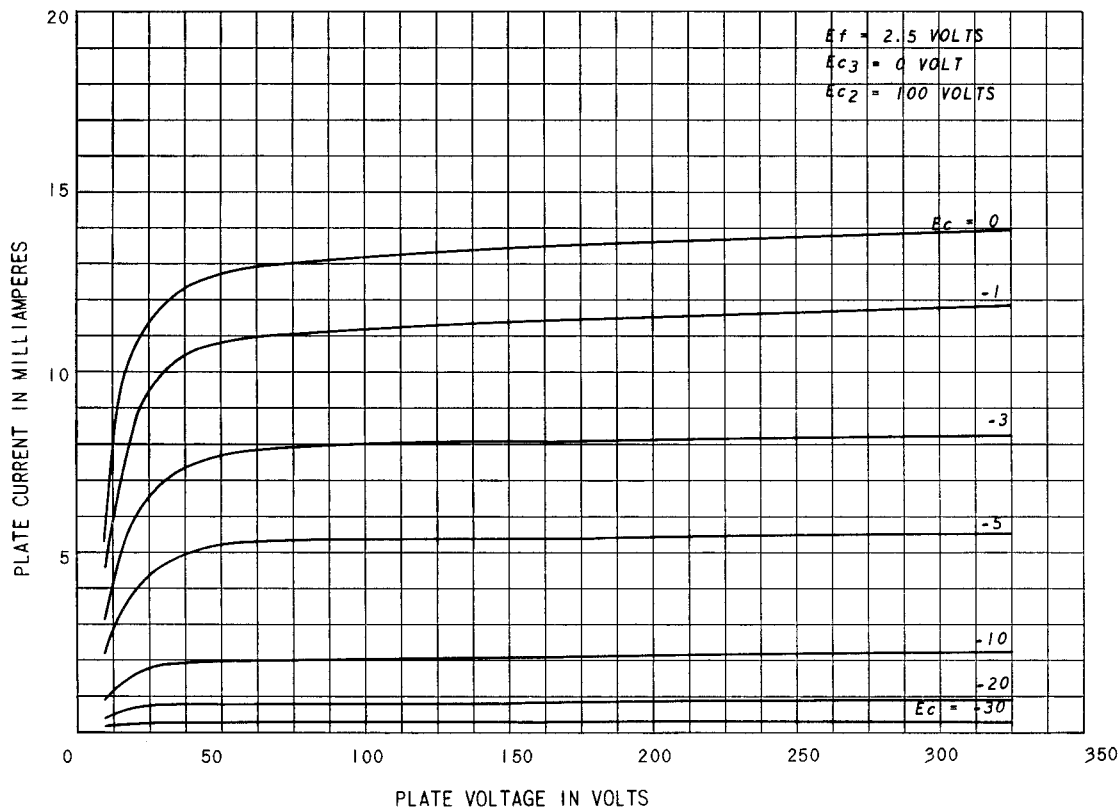
CLASS A AMPLIFIER

Heater Voltage	2.5	2.5	Volts
Plate Voltage	100	250	Volts
Screen Voltage	100	100	Volts
Suppressor (Grid No. 3) Voltage **	0	0	Volt
Grid Bias Voltage	-3	-3	Volts
Plate Resistance (Approx)	0.25	0.8	Megohm
Transconductance	1500	1600	Micromhos
Grid Bias Voltage §	-50	-50	Volts
Plate Current	8.0	8.2	Milliamperes
Screen Current	2.2	2.0	Milliamperes

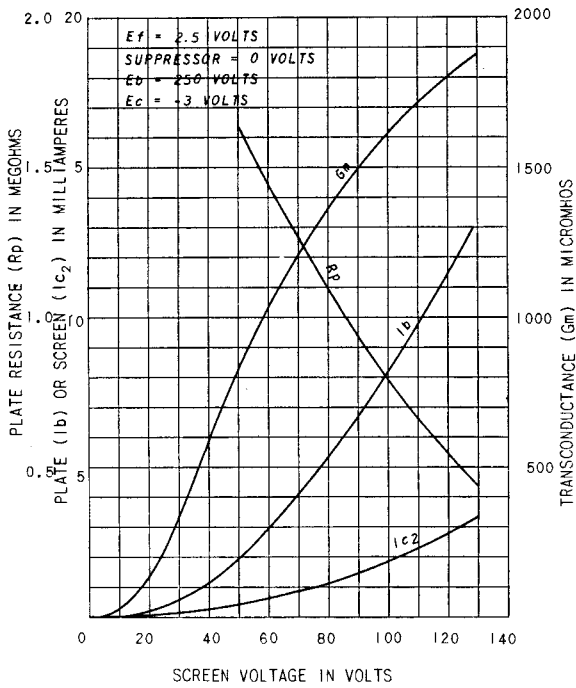
§ Approximate values for a transconductance of 2 micromhos.

** Connected to cathode at socket terminal.

AVERAGE PLATE CHARACTERISTICS



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