

#216  
9/21/39  
Rev 198



7A7-LM

**TRIPLE-GRID SUPER-CONTROL AMPLIFIER**  
**Single-Ended Metal Type**  
(TENTATIVE DATA)

HEATER VOLTAGE (A.C. or D.C.)	6.3 <sup>□</sup>	Volts
HEATER CURRENT	0.3 <sup>□□</sup>	Ampere
DIRECT INTERELECTRODE CAPACITANCES: <sup>○</sup>		
Grid to Plate	0.005 max.	μuf
Input	6	μuf
Output	7	μuf
MAXIMUM OVERALL LENGTH	2-5/8"	
MAXIMUM DIAMETER	1-1/4"	
BULB	Metal Shell, MT-8	
BASE	Intermediate Wafer Octalox 8-Pin	

- <sup>□</sup> Nominal value is 7 volts.
- <sup>□□</sup> Nominal value is 0.32 ampere.

**Amplifier - Class A<sub>1</sub>**

**OPERATING CONDITIONS and CHARACTERISTICS:**

Heater Voltage #	6.3	Volts
Plate Voltage	250 max.*	Volts
Screen Voltage	100 max.*	Volts
Grid Voltage	-3 min.**	Volts
Suppressor	Connected to cathode at socket	
Plate Resistance	0.8	Megohm
Transconductance	2000	Micromhos
Grid Bias for trans-conductance of 10 micromhos	-35	Volts
Plate Current	8.6	Milliamperes
Screen Current	2	Milliamperes

- <sup>○</sup> With shell connected to cathode.
- \* Design maximum for 117-volt line.
- \*\* Design minimum for 117-volt line.
- # In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

**Pin Connections**

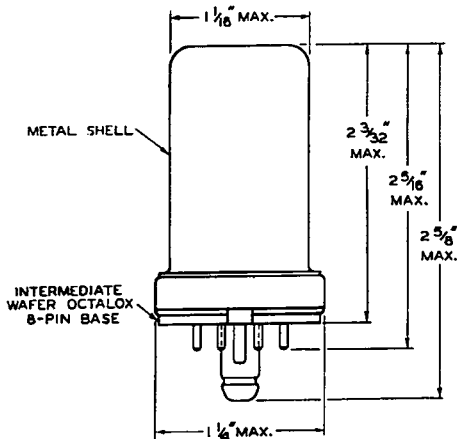
Pin 1 - Heater	Pin 6 - Grid
Pin 2 - Plate	Pin 7 - Cathode
Pin 3 - Screen	Pin 8 - Heater
Pin 4 - Suppressor	Plug - Shell
Pin 5 - Shell	

(Pin numbers are according to RMA system)

**Operating Position**

Vertical or Horizontal - No restrictions

**Outline Drawing**



**Bottom View of Socket Connections**

