



7A7-LM

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

#216
9/21/39
10/21/38

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

- Nominal value is 7 volts.
□ Nominal value is 0.32 ampere.

Amplifier - Class A₁

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

- ° 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

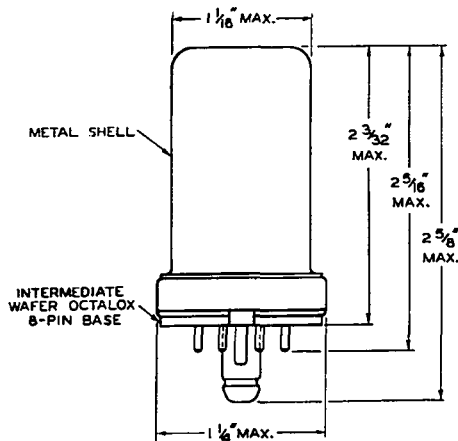
Pin 1 - Heater	Pin 6 - Grid
Pin 2 - Plate	Pin 7 - Cathode
Pin 3 - Screen	Pin 8 - Heater
Pin 4 - Suppressor	Plug - Shell
Pin 5 - Shell	

(Pin numbers are according to RMA system)

Operating Position

Vertical or Horizontal - No restrictions

Outline Drawing



Bottom View of Socket Connections

