



2C43

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# LIGHTHOUSE TRIODE

## GENERAL DATA

### Electrical:

Heater for Unipotential Cathode:

Voltage . . . . .	6.3 ± 5%	ac or dc	volts
Current . . . . .	0.9		amp.

Direct Interelectrode Capacitances:

Grid to Plate* . . . . .	1.7		μμf
Grid to Cathode* . . . . .	2.8		μμf
Plate to Cathode*Δ . . . . .	0.02		μμf
Cathode to Shell . . . . .	100 approx.		μμf

Characteristics, Class A<sub>1</sub> Amplifier:

DC Plate Voltage . . . . .	250	volts
Cathode-Bias Resistor** . . . . .	100	ohms
Amplification Factor . . . . .	48	
Plate Resistance . . . . .	6000	ohms
Transconductance . . . . .	8000	μmhos
Plate Current . . . . .	20	ma.

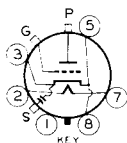
### Mechanical:

Operating Position . . . . . Any  
 Mounting . . . . . Tube should be supported by its metal shell and not by its base or other terminals

Dimensions and Terminals . . . . . See Outline Drawing  
 Base . . . . . Small H-Wafer Octal 6-Pin

BOTTOM VIEW

- Pin 1 - Internal Con. Do Not Use
- Pin 2 - Heater
- Pin 3 - Cathode
- Pin 5 - Cathode
- Pin 7 - Heater
- Pin 8 - Cathode



- Shell (S) } Cathode
- } RF Terminal
- Center Disc (G) } Grid Terminal
- Post & End Disc (PI) } Plate Terminal

### RF AMPLIFIER & OSCILLATOR - Class C Telegraphy

#### Maximum Ratings, Design-Center Values:

DC PLATE VOLTAGE . . . . .	450 max.	volts
DC PLATE CURRENT . . . . .	36 max.	ma.
PLATE DISSIPATION . . . . .	10 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode . . . . .	90 max.	volts
Heater positive with respect to cathode . . . . .	90 max.	volts
PLATE-SEAL TEMPERATURE# . . . . .	150 max.	°C

\* with cathode connected directly to shell.  
 \*\* Fixed bias is not recommended.  
 Δ with shield having diameter of 2-3/8" in plane of grid disc terminal.  
 # under extremely high ambient temperatures, the plate-seal temperature must never exceed 200°C.

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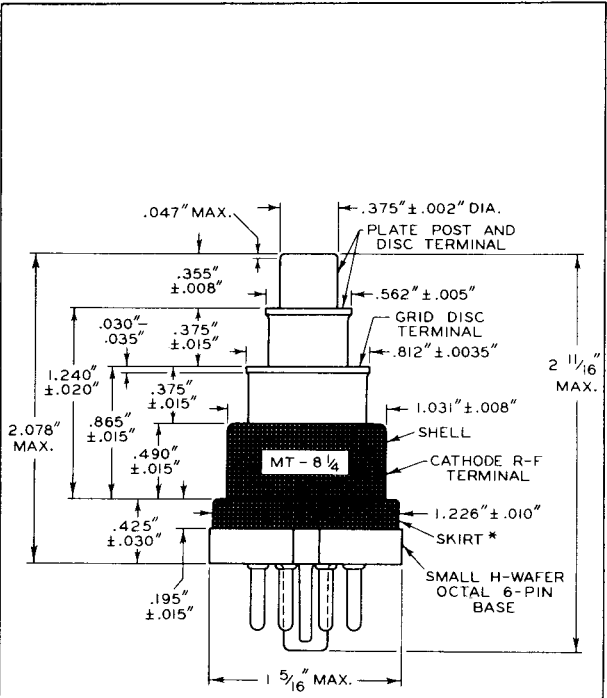


PLATE POST, GRID DISC TERMINAL, AND CATHODE R-F TERMINAL ARE CONCENTRIC WITH RESPECT TO EACH OTHER WITHIN 1/64".

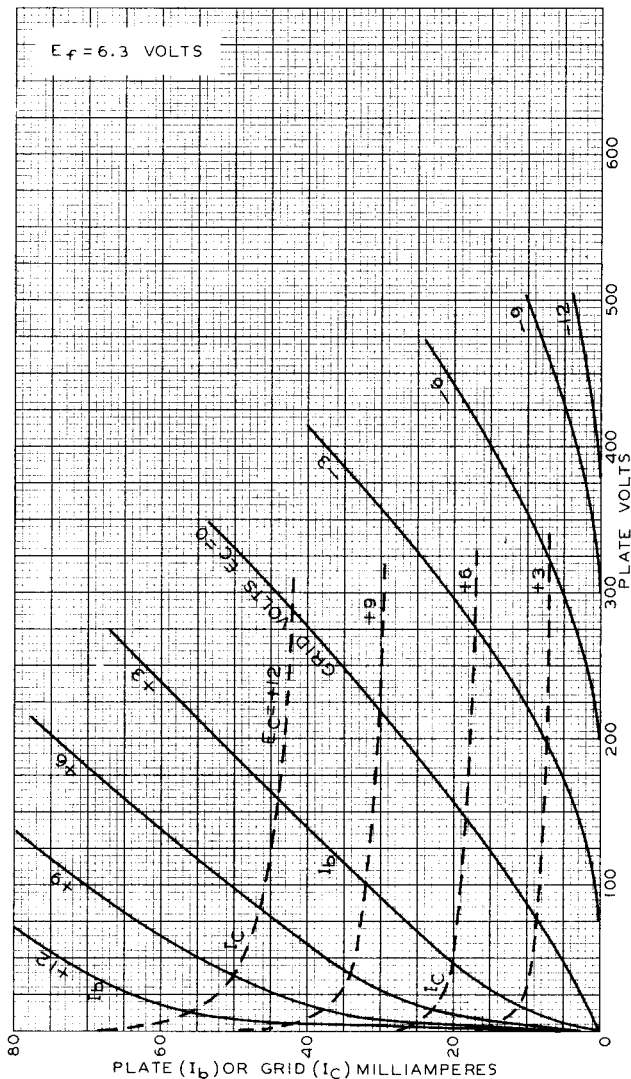
\*NOT TO BE USED FOR RF CONTACT IN NEW EQUIPMENT DESIGNS.



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# AVERAGE PLATE CHARACTERISTICS



MAR. 5, 1945

RCA VICTOR DIVISION

92CM-6508

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY