

obsolete
10/62



2C40

2C40

LIGHTHOUSE TRIODE

Supersedes Types 446-A and 446-B in Military Equipment

GENERAL DATA

Electrical:

Heater for Unipotential Cathode:

Voltage	6.3 ± 5%	ac or dc volts
Current	0.75	amp.

Direct Interelectrode Capacitances:

Grid to Plate*	1.3	μf
Grid to Cathode*	2.1	μf
Plate to Cathode* ^Δ	0.02	μf
Cathode to Shell	100 approx.	μf

Characteristics, Class A₁ Amplifier:

DC Plate Voltage	250	volts
Cathode-Bias Resistor**	200	ohms
Amplification Factor	36	
Plate Resistance	7500	ohms
Transconductance	4800	μmhos
Plate Current	16.5	ma.

Mechanical:

Operating Position Any

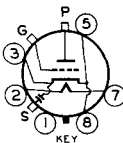
Mounting Tube should be supported by its metal shell and not by its base or other terminals

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 DisclP) } Plate
Terminal

RF AMPLIFIER & OSCILLATOR - Class C Telegraphy

Maximum Ratings, Design-Center Values:

DC PLATE VOLTAGE	450 max.	volts
DC PLATE CURRENT	22 max.	volts
PLATE DISSIPATION	5 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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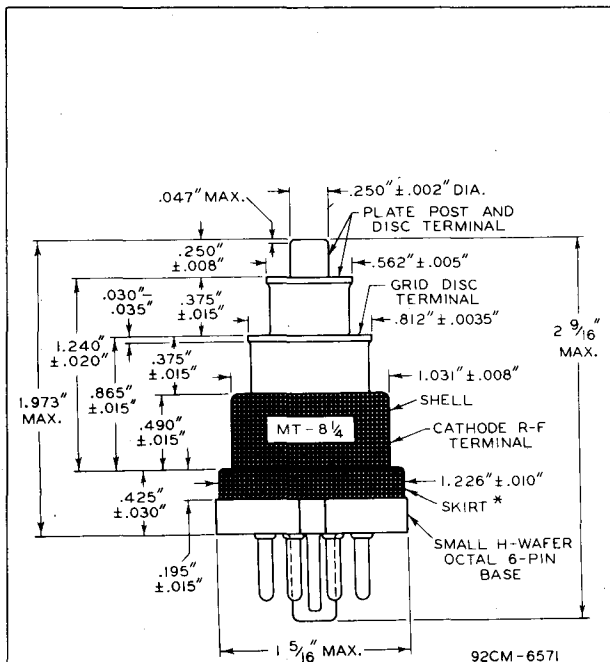


PLATE POST, GRID DISC TERMINAL, AND CATHODE RF TERMINAL ARE CONCENTRIC WITH RESPECT TO EACH OTHER WITHIN $1/64''$.

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

Nov. 15, 1945

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

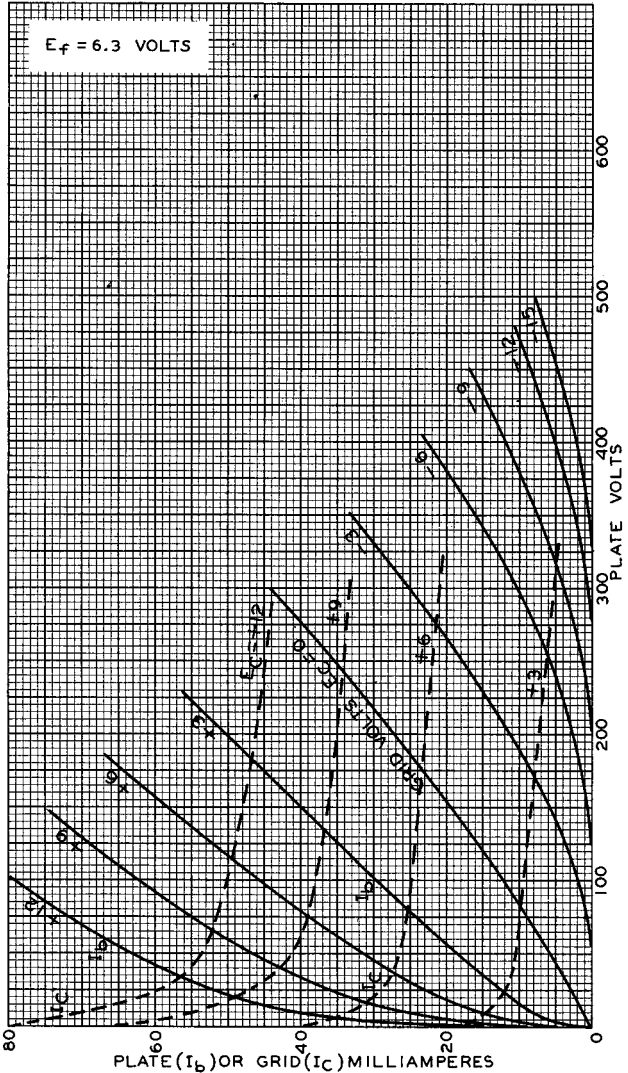


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AVERAGE PLATE CHARACTERISTICS

$E_f = 6.3$ VOLTS



MAR. 3, 1945

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6507