

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

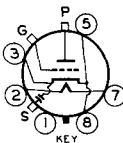
Mounting Tube should be supported by its metal shell and not by its base or other terminals

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 Disc (P) } 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.

2C40



2C40

LIGHTHOUSE TRIODE

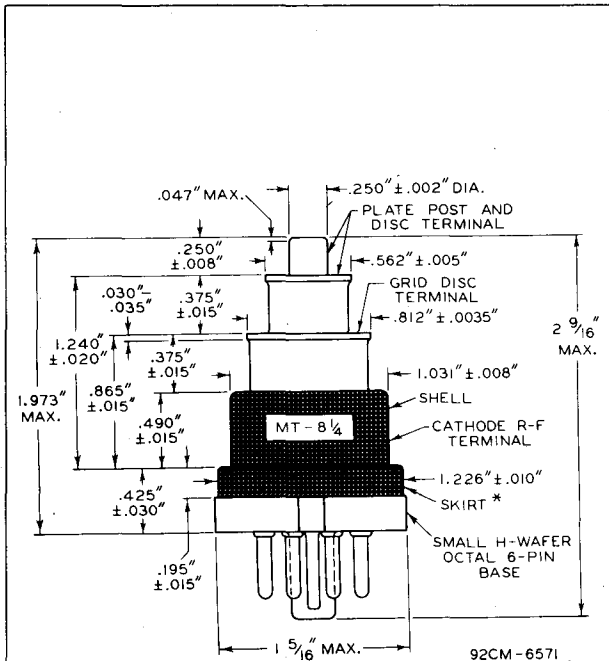


PLATE POST, GRID DISC TERMINAL, AND CATHODE RF TERMINAL ARE CONCENTRIC WITH RESPECT TO EACH OTHER WITHIN $1/64"$.

* 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

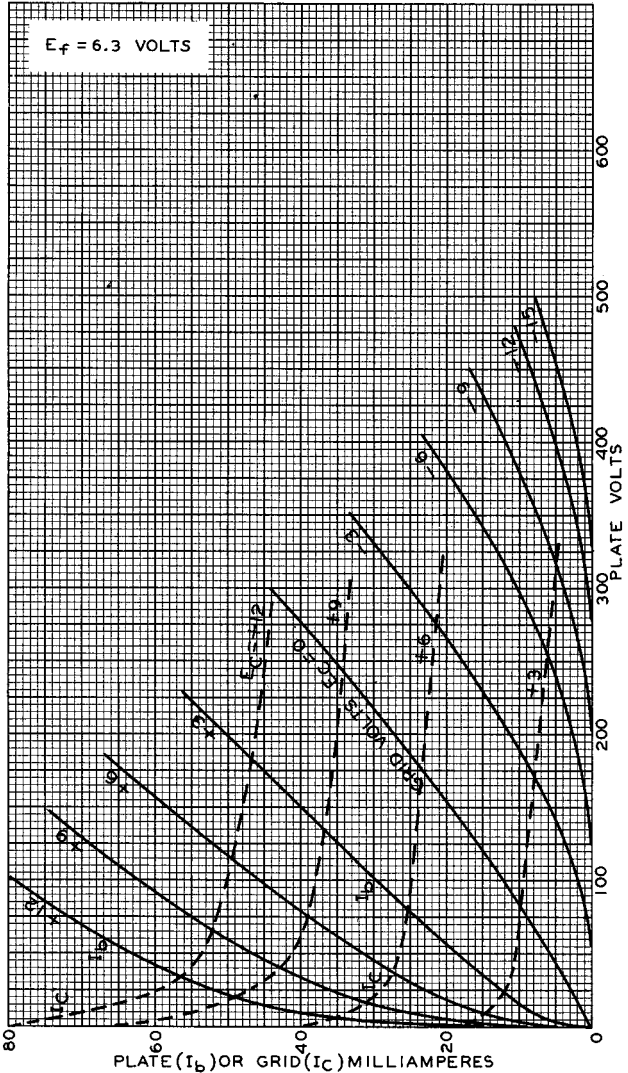


2C40

2C40

AVERAGE PLATE CHARACTERISTICS

$E_f = 6.3$ VOLTS



MAR. 3, 1945

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

92CM-6507