

obsolete
10/62



2C43

2C43

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

Characteristics, Class A₁ 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.

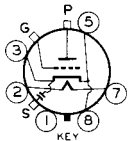
Mechanical:

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 (P) } 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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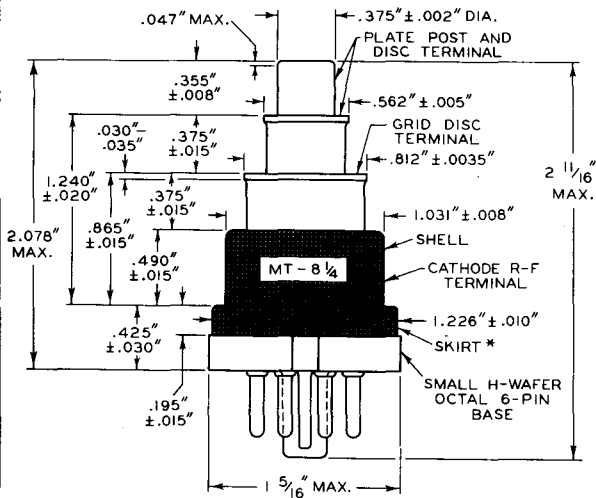


PLATE POST, GRID DISC TERMINAL, AND CATHODE RF TERMINAL ARE CONCENTRIC WITH RESPECT TO EACH OTHER WITHIN $1/64"$.

*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

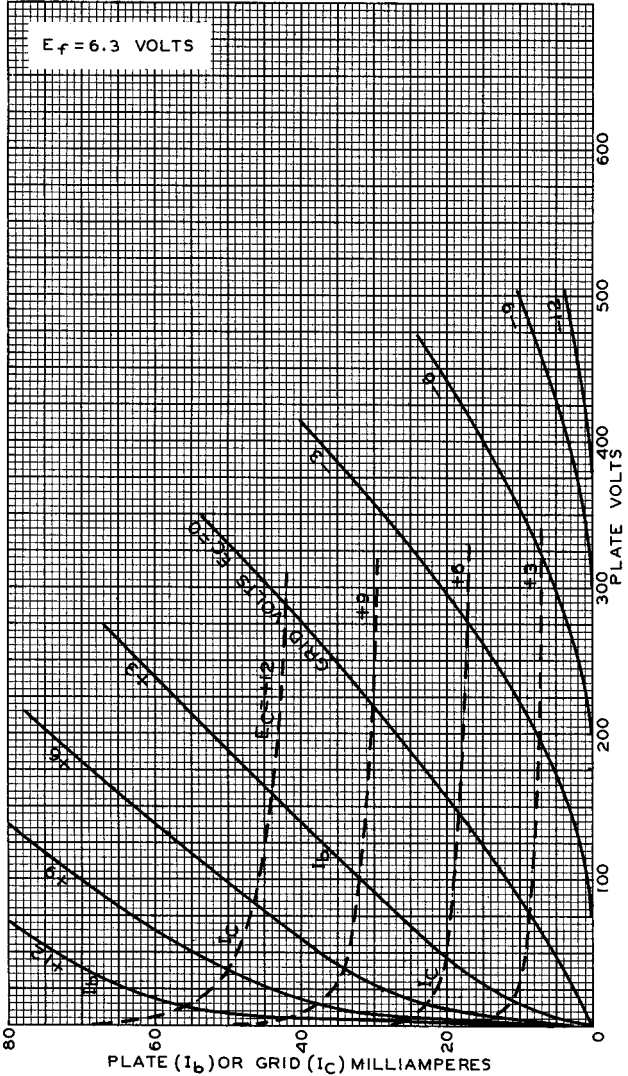


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AVERAGE PLATE CHARACTERISTICS

$E_f = 6.3$ VOLTS



MAR. 5, 1945

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

92CM-6508