

obsolete
10/62



2C43

2C43

LIGHTHOUSE TRIODE

GENERAL DATA

Electrical:

Heater for Unipotential Cathode:

Voltage 6.3 $\pm$ 5% ac or dc volts
Current 0.9 amp.

Direct Interelectrode Capacitances:

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

Characteristics, Class A₁ Amplifier:

DC Plate Voltage 250 volts
Cathode-Bias Resistor** 100 ohms
Amplification Factor 48
Plate Resistance 6000 ohms
Transconductance 8000 μ mhos
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

Pin1 - Internal Con.
Do Not Use

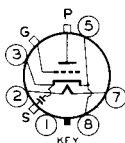
Pin2 - Heater

Pin3 - Cathode

Pin5 - Cathode

Pin7 - Heater

Pin8 - Cathode



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

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.

Nov. 15, 1945

RCA VICTOR DIVISION

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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LIGHTHOUSE TRIODE

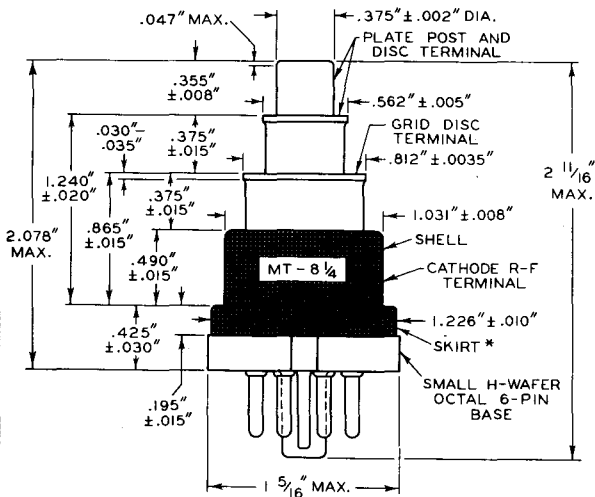


PLATE POST, GRID DISC TERMINAL, AND CATHODE RF TERMINAL ARE CONCENTRIC WITH RESPECT TO EACH OTHER WITHIN 1/64".

*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

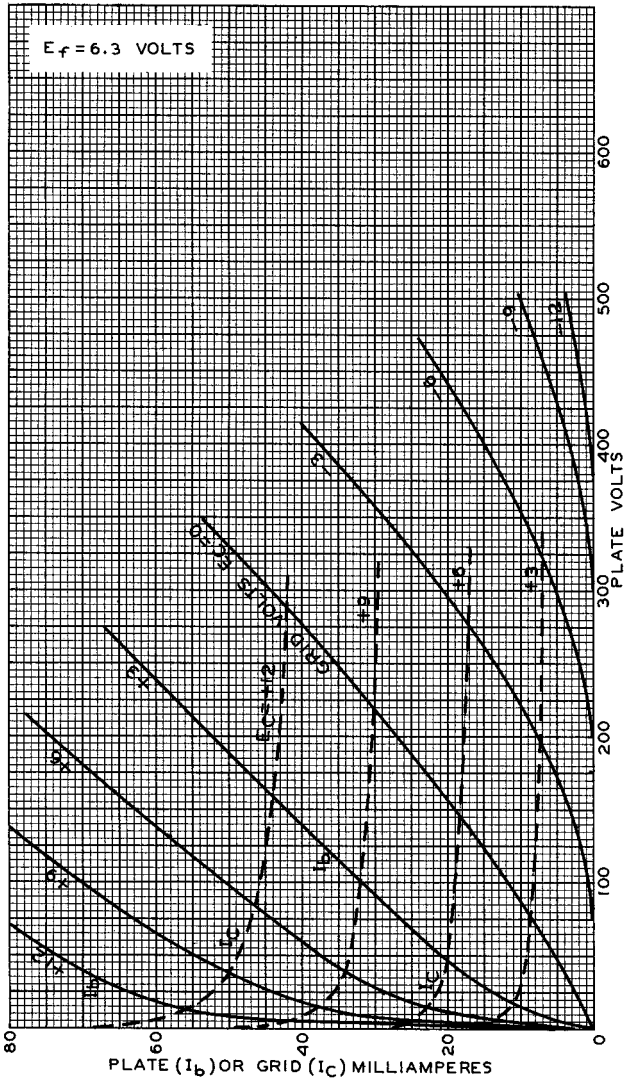


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AVERAGE PLATE CHARACTERISTICS

$E_f = 6.3$ VOLTS



MAR. 5, 1945

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

92CM-6508