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THYRATRON

MERCURY-VAPOR TETRODE

Supersedes Type 872

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage.	5	ac or dc volts
Current.	5	amp

Cathode:

Min. Heating Time, prior to tube conduction. . . 5 minutes

Direct Interelectrode Capacitances:

Grid No.1 to Anode 0.04 μ f

Grid No.2 to Anode 3 μ f

Ionization Time (Approx.) 10 μ sec

Deionization Time (Approx.) 1000 μ sec

Maximum Critical Grid Current. 2 μ amp

Anode Voltage Drop (Approx.) 12 volts

Mechanical:

Mounting Position. Vertical, Base Down

Overall Length 7-7/8" \pm 1/4"

Seated Length. 7-1/8" \pm 1/4"

Maximum Diameter 2-5/16"

Bulb T-18

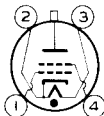
Cap. Skirted Medium

Base Large-Shell Super-Jumbo 4-Pin, Bayonet

Basing Designation for BOTTOM VIEW 4CE

Pin 1 - Grid No.1

Pin 2 - Heater,
Cathode



Pin 3 - Heater

Pin 4 - Grid No.2

Cap - Anode

GRID-CONTROLLED RECTIFIER SERVICE

For frequencies up to 150 cycles

Maximum Ratings, Absolute Values:

PEAK ANODE VOLTAGE:

Forward. 2500 max. volts

Inverse. 2500 max. volts

GRID-No.2 (SHIELD-GRID) VOLTAGE:

Peak, before anode conduction. -300 max. volts

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Peak, before anode conduction. -1000 max. volts

CATHODE CURRENT:

Peak 40 max. amp

Average[■] 3.2 max. amp

Surge, for duration of 0.1 sec. max. 150 max. amp

[■] See next page.

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GRID-No. 2 CURRENT:

Peak	1 max.	amp
Average [■]	0.25 max.	amp

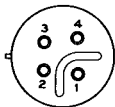
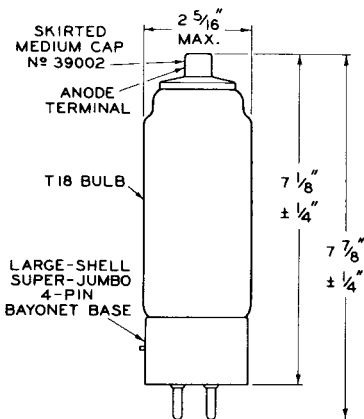
GRID-No. 1 CURRENT:

Peak	1 max.	amp
Average [■]	0.25 max.	amp

COND.-MERCURY TEMPERATURE RANGE [▲]	40 to 80	°C
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■ Averaged over any interval of 15 sec. max.

▲ Recommended condensed-mercury temperature is between 45° and 50°C.



BOTTOM VIEW OF BASE

92CS-6735R1

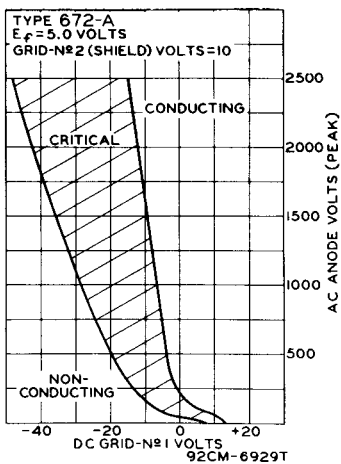
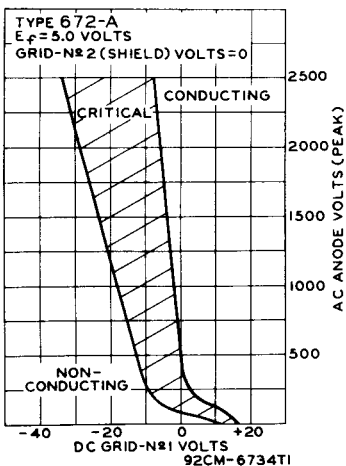


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OPERATIONAL RANGES OF CRITICAL GRID-N₂1 VOLTAGE



SEPT. 30, 1948

TUBE DEPARTMENT

CE-6734T1-6929T

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY