



6BC4

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MEDIUM-MU TRIODE

9-PIN MINIATURE TYPE

For use as rf amplifier in cathode-drive circuits
of TV tuners covering range of 470-890 Mc

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 6.3 ac or dc volts
Current 0.225 amp

Direct Interelectrode Capacitances (Approx.):*

Grid to plate 1.6 μf
Grid to heater and cathode 2.9 μf
Plate to heater and cathode 0.26 μf
Heater to cathode 2.7 μf

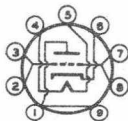
Characteristics - Class A₁ Amplifier:

Plate Supply Voltage 150 volts
Cathode-Bias Resistor 100 ohms
Amplification Factor 48
Plate Resistance 4800 ohms
Transconductance 10000 μmhos
Grid Voltage (Approx.) for plate
current of 10 μamp -10 volts
Plate Current 14.5 ma

Mechanical:

Mounting Position Any
Maximum Overall Length 1-3/4"
Maximum Seated Length 1-1/2"
Length, Base Seat to Bulb Top
(Excluding Tip) 1-1/8" $\pm$ 3/32"
Maximum Diameter 7/8"
Bulb T-6-1/2
Base Small-Button Noval 9-Pin (JETEC No. E9-1)
Basing Designation for BOTTOM VIEW

Pin 1-Plate
Pin 2-Grid
Pin 3-Grid
Pin 4-Heater
Pin 5-Heater



Pin 6-Cathode
Pin 7-Grid
Pin 8-Grid
Pin 9-Plate

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 250 max. volts
PLATE DISSIPATION 2.5 max. watts
CATHODE CURRENT 25 max. ma
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode 75 max. volts
Heater positive with respect to cathode 75 max. volts

* With no external shield.

JUNE 14, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

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Maximum Circuit Values (For maximum rated conditions):

Grid-Circuit Resistance:

For cathode-bias operation	0.5 max. megohm
For fixed-bias operation	not recommended

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AVERAGE CHARACTERISTICS

