

6AR11

Semiremote-Cutoff Twin Pentode

DUODECAR TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 0.800 amp

Peak heater-cathode voltage

(Each unit):

Heater negative with
respect to cathode. 200 max. volts

Heater positive with
respect to cathode. 200^a max. volts

Direct Interelectrode Capacitances:^b

Unit No. 1:

Grid No.1 to plate. 0.026 pf

Grid No.1 to cathode, grid No.2,
grid No.3 & internal shield,
and heater. 10 pf

Plate to cathode, grid No.2, grid
No.3 & internal shield, and heater 2.8 pf

Unit No. 2:

Grid No.1 to plate. 0.026 pf

Grid No.1 to cathode, grid No.2,
grid No.3, grid No.3 of unit No.1
& internal shield, and heater . . 10 pf

Plate to cathode, grid No.2,
grid No.3, grid No.3 of unit No.1
& internal shield, and heater. . . 3.0 pf

Plate of unit No.1 to plate
of unit No.2. 0.02 max. pf

Grid No.1 of unit No.1 to plate of
unit No.2 0.002 max. pf

Grid No.1 of unit No.2 to plate
of unit No.1. 0.002 max. pf

Characteristics, Class A₁ Amplifier (Each Unit):

Plate Supply Voltage. 125 volts

Grid No.3 *Connected to cathode at socket*

Grid-No.2 Supply Voltage. 125 volts

Cathode Resistor. 56 ohms

Plate Resistance (Approx.). 0.2 megohm

Transconductance. 10500 μ mhos

Plate Current 11 ma

Grid-No.2 Current 3.5 ma

Grid-No.1 Voltage (Approx.) for
transconductance (μ mhos) = 50 -15 volts

Mechanical:

Operating Position. Any

Type of Cathodes. Coated Unipotential

Maximum Overall Length. 1.875"



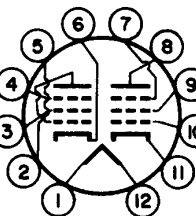
RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 1
1-63

6AR11

Seated Length 1.250" to 1.500"
 Diameter 1.062" to 1.188"
 Bulb T9
 Base Small-Button Duodecar 12-Pin (JEDEC No.E12-70)
 Basing Designation for BOTTOM VIEW 12DM

Pin 1-Heater	Pin 8-Plate of Unit No.1
Pin 2-Plate of Unit No.2	Pin 9-Grid No.2 of Unit No.1
Pin 3-Grid No.2 of Unit No.2	Pin 10-Grid No.1 of Unit No.1
Pin 4-Grid No.3 of Unit No.2	Pin 11-Cathode of Unit No.1
Pin 5-Grid No.1 of Unit No.2	Pin 12-Heater
Pin 6-Cathode of Unit No.2	
Pin 7-Grid No.3 of Unit No.1, Internal Shield	



AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Design-Maximum Values:

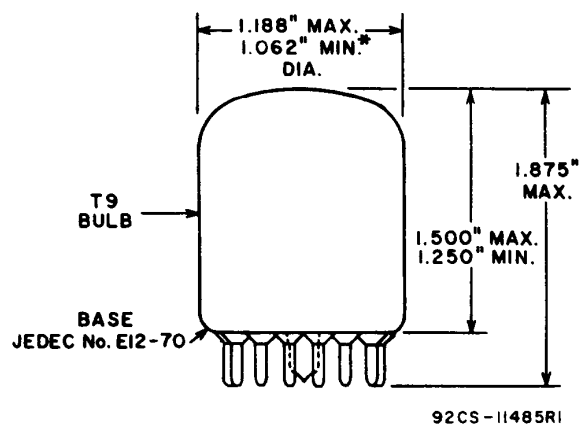
PLATE VOLTAGE 330 max. volts
 GRID No.3 (SUPPRESSOR GRID) . . .Connect to cathode at socket
 GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE . . 330 max. volts
 GRID-No.2 VOLTAGE See Grid-No.2 Input Rating Chart
 at front of Receiving Tube Section
 GRID-No.1 (CONTROL-GRID) VOLTAGE:
 Positive-bias value 0 max. volts
 GRID-No.2 INPUT:
 For grid-No.2 voltages up to 165 volts . 0.65 max. watt
 For grid-No.2 voltages between
 165 and 330 volts See Grid-No.2 Input Rating Chart
 at front of Receiving Tube Section
 PLATE DISSIPATION 3.1 max. watts

^a The dc component must not exceed 100 volts.

^b With external shield JEDEC No.309 connected to cathode of unit under test.



6AR11



* APPLIES TO MINIMUM DIAMETER EXCEPT IN AREA OF SEAL.



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 2
1-63