GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Heater arrangement: Series Parallel

Voltage: 12.6 ± 20% 6.3 ± 20% ac or dc volts

Current:

At 12.6 volts... 0.15 amp
At 6.3 volts... 0.3 amp

Direct Inter-electrode Capacitances (Approx.):

Without External Shield With External Shield

Grid to plate (Each unit)... 1.7 μf 1.7 μf
Grid to cathode and heater (Each unit)... 1.6 μf 1.8 μf
Plate to cathode and heater:

Unit No.1 ...
Unit No.2 ...

Characteristics, Class A1 Amplifier (Each Unit):

Heater Voltage:

For series connection...

For parallel connection...

Plate Voltage ...

Grid Voltage ...

Amplification Factor ...

Plate Resistance (Approx.)...

Transconductance ...

Plate Current ...

Mechanical:

Operating Position ...

Maximum Overall Length ...

Maximum Seated Length ...

Length, Base Seat to Bulb Top (Excluding tip) ...

Diameter ...

Dimensional Outline ...

Bulb ...

Base ...

Basing Designation for BOTTOM VIEW ...

9A

Pin 1-Plate of Unit No.2
Pin 2-Grid of Unit No.2
Pin 3-Cathode of Unit No.2
Pins 4 & 9-Heater of Unit No.2
Pins 5 & 9-Heater of Unit No.1

Pin 6-Plate of Unit No.1
Pin 7-Grid of Unit No.1
Pin 8-Cathode of Unit No.1
Pin 9-Heater Mid-Tap

For use in mobile communications equipment.
AMPlifier — Class A

Values are for Each Unit

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE .................. 330 max. volts

GRID VOLTAGE:
  Negative-bias value .. ....... 55 max. volts
  Positive-bias value ........... 0 max. volts

PLATE DISSIPATION .......... 1.1 max. watts

PEAK HEATER-CATHODE VOLTAGE:
  Heater negative with respect
    to cathode .. ............... 200 max. volts
  Heater positive with respect
    to cathode .. ............... 200* max. volts

* When the heater is operated from storage-battery-with-charger supply
  or similar supplies, the normal battery-voltage fluctuation may be as
  much as 35 per cent or more. Although such variation in heater voltage
  is permissible for short periods, reliability can be increased with
  improved supply-voltage regulation.

O With external shield JEDEC No. 315 connected to cathode of unit under test.

▲ The ac component must not exceed 100 volts.

SPECIAL RATINGS & PERFORMANCE DATA

Heater-Cycling Life Performance:

This test is performed on a sample lot of tubes from each
production run. A minimum of 2000 cycles of intermittent
operation is applied under the following conditions: heater
volts = 15 (Series connection) cycled one minute on and
one minute off, heater 135 volts positive with respect to
Cathode, and all other elements connected to ground. At
the end of this test, tubes are checked for heater-cathode
shorts and open circuits.