



# I2B4-A LOW-MU TRIODE

9-PIN MINIATURE TYPE

*Intended for use in equipment having  
series heater-string arrangement*

I2B4-A

## GENERAL DATA

### Electrical:

Heater, for Unipotential Cathode:

| Heater arrangement               | Series | Parallel |                |
|----------------------------------|--------|----------|----------------|
| Voltage . . . . .                | 12.6   | 6.3      | ac or dc volts |
| Current . . . . .                | 0.300  | 0.600    | amp            |
| Warm-up time (Average) . . . . . | -      | 11       | sec            |

*For definition of heater warm-up time and method of determining it, see sheet HEATER WARM-UP TIME MEASUREMENT at front of this Section.*

Direct Interelectrode Capacitances (Approx.):<sup>o</sup>

|                                       |     |                  |
|---------------------------------------|-----|------------------|
| Grid to plate . . . . .               | 4.8 | $\mu\mu\text{f}$ |
| Grid to cathode and heater . . . . .  | 5   | $\mu\mu\text{f}$ |
| Plate to cathode and heater . . . . . | 1.5 | $\mu\mu\text{f}$ |

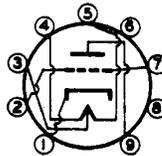
### Characteristics, Class A<sub>1</sub> Amplifier:

|  |       |                  |
|--|-------|------------------|
| Plate Voltage . . . . .  | 150   | volts            |
| Grid Voltage . . . . .   | -17.5 | volts            |
| Amplification Factor . . . . .   | 6.5   |                  |
| Plate Resistance (Approx.) . . . . .   | 1030  | ohms             |
| Transconductance . . . . .   | 6300  | $\mu\text{mhos}$ |
| Plate Current . . . . .  | 34    | ma               |
| Grid Voltage (Approx.) for<br>plate current of 200 $\mu\text{amp}$ . . . . . | -32   | volts            |
| Plate Current for grid<br>voltage of -23 volts . . . . .                     | 9.6   | ma               |

### Mechanical:

|   |   |
|---|---|
| Mounting Position . . . . .                             | Any                                       |
| Maximum Overall Length . . . . .                        | 2-5/8"                                    |
| Maximum Seated Length . . . . .                         | 2-3/8"                                    |
| Length, Base Seat to Bulb Top (Excluding tip) . . . . . | 2" $\pm$ 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 . . . . .            | 9AG                                       |

- Pin 1 - Cathode
- Pin 2 - Grid
- Pin 3 - Heater  
Mid-Tap
- Pin 4 - Heater
- Pin 5 - Heater



- Pin 6 - No Connection
- Pin 7 - Grid
- Pin 8 - No Connection
- Pin 9 - Plate

<sup>o</sup> With external shield JETEC No. 315 connected to cathode.

MAY 1, 1955

TUBE DIVISION

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

