### GENERAL DATA

**Electrical:**
- **Heater, for Unipotential Cathode:**
  - Voltage: 6.3 ac or dc volts
  - Current: 1.75 amp
- **Direct Interelectrode Capacitances (Approx.):**
  - Heater to cathode: 1.5 μf
  - Plate to cathode and heater: 8 μf
  - Cathode to plate and heater: 9 μf

**Mechanical:**
- **Mounting Position:** Any
- **Maximum Overall Length:** 3-1/16"
- **Seated Length:** 2-21/32" ± 1/8"
- **Maximum Diameter:** 7/8"
- **Bulb:** T-6-1/2
- **Cap:** Skirted Miniature (JETEC No.C1-2 or C1-33)
- **Base:** Small-Button Noval 9-Pin (JETEC No.E9-1)
- Basing Designation for BOTTOM VIEW: 9BD

**Pin Configuration:**
- Pin 1 - No Connection
- Pin 2 - Plate
- Pin 3 - Same as Pin 1
- Pin 4 - Heater
- Pin 5 - Heater
- Pin 6 - Same as Pin 1
- Pin 7 - Plate
- Pin 8 - Same as Pin 1
- Pin 9 - Plate

**DAMPER SERVICE**

**Maximum Ratings, Design-Center Values Except as Noted:**

*For operation in a 525-line, 30-frame system*<sup>1</sup>

- **Peak Inverse Plate Voltage**
  - (Absolute maximum)<sup>#</sup>: 6000* max. volts
- **Peak Plate Current**: 800 max. ma
- **DC Plate Current**: 135 max. ma
- **Peak Heater-Cathode Voltage:**
  - Heater negative with respect to cathode
    - (Absolute maximum)<sup>#</sup>: 6750* max. volts
  - Heater positive with respect to cathode
    - 300* max. volts

<sup>1</sup> Without external shield.

<sup>#</sup> As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

<sup>#</sup> This rating is applicable where the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

<sup>•</sup> Under no circumstances should this absolute value be exceeded.

<sup>•</sup> The dc component must not exceed 750 volts.

<sup>•</sup> The dc component must not exceed 100 volts.

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**TENTATIVE DATA**

MAY 1, 1955