

# 4 VALVE DATA PREFERRED TYPES

## J OSCILLOSCOPE AND PICTURE TUBES

**DB7-6**  
**DG7-6**  
**DR7-6**

Preliminary  
Data

High Vacuum Oscilloscope Tubes with  
2 3/4 in. diameter screens

|        |       |     |        |   |
|--------|-------|-----|--------|---|
| HEATER | $V_h$ | 6.3 | HEATER | V |
|        | $I_h$ | 0.4 |        | V |

### CAPACITANCES

|                   |     |         |
|-------------------|-----|---------|
| $C_{y'-all}$      | 4.4 | $\mu F$ |
| $C_{y''-all}$     | 4.4 | $\mu F$ |
| $C_{x'-all}$      | 5.0 | $\mu F$ |
| $C_{x''-all}$     | 5.4 | $\mu F$ |
| $C_{y'y''-all}$   | 0.5 | $\mu F$ |
| $C_{x'x''-all}$   | 0.8 | $\mu F$ |
| $C_{y'y''-x'x''}$ | 0.1 | $\mu F$ |
| $C_g-all$         | 9.0 | $\mu F$ |

### LUMINESCENT COLOUR

|       |                           |
|-------|---------------------------|
| DB7-6 | Blue. Short persistence   |
| DG7-6 | Green. Medium persistence |
| DR7-6 | Long persistence          |

### DEFLECTION

- Double electrostatic
- Y plates suitable for symmetrical operation
- \*X plates suitable for asymmetrical operation
- \* It is essential that plate  $x''$  be connected to  $a_2$

### FOCUSING Electrostatic

### OPERATING CONDITIONS

|           |            |   |
|-----------|------------|---|
| $V_{a_2}$ | 800        | V |
| $V_{a_1}$ | 200 to 300 | V |
| * $V_g$   | 0 to -50   | V |

\* Grid must never be allowed to become positive with respect to the cathode

### DEFLECTION SENSITIVITY ( $V_{a_2}=800$ V)

|          |      |      |
|----------|------|------|
| X plates | 0.16 | mm/V |
| Y plates | 0.26 | mm/V |

### LIMITING VALUES

|                        |       |                    |
|------------------------|-------|--------------------|
| $V_{a_2}$ max.         | 1,000 | V                  |
| $V_{a_2}$ min.         | 800   | V                  |
| $V_{a_1}$ max.         | 400   | V                  |
| $V_g$                  | 0     | V                  |
| $-V_g$ max.            | 100   | V                  |
| $v_{x'-x''}$ (pk) max. | 750   | V                  |
| $v_{y'-y''}$ (pk) max. | 450   | V                  |
| $p_i$ max.             | 3     | mW/cm <sup>2</sup> |
| $R_{g-k}$ max.         | 0.5   | M $\Omega$         |



BASE :  
B9G

DIMENSIONS :  
L=160 mm  
D= 71 mm

