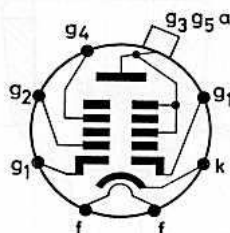


# Black and White Picture Tubes

## M 17-18 W

### For Replacement

17 cm rectangular monitor tube with 70° deflection angle, electrostatic focusing, and aluminized screen



### 1. Generalities

| Type         | Fluorescence Colour | Persistence                            |
|--------------|---------------------|----------------------------------------|
| M 17 - 18 W  | Whitish             | Medium $10^{-3} \dots 10^{-1}$ s       |
| M 17 - 18 BE | Blue                | Medium Short $10^{-5} \dots 10^{-3}$ s |
| M 17 - 18 GJ | Yellowish-Green     | Medium $10^{-3} \dots 10^{-1}$ s       |
| M 17 - 18 GM | Purplish-Blue       | Long $10^{-1} \dots 1$ s               |
| M 17 - 18 LF | Orange              | Long $10^{-1} \dots 1$ s               |

### 2. Typical Operating Conditions ①

|                |                                 |
|----------------|---------------------------------|
| $U_f$ ⑭        | 11 V                            |
| $I_f$          | approx. 74 mA                   |
| $U_{g3g5a}$    | 11 11 kV                        |
| $U_{g2}$       | 200-350 ⑮ 250 V                 |
| $U_{g4}$ ③     | -100 ... + 300 -100 ... + 300 V |
| $U_k$ cutoff ④ | 45 32 ... 58 V                  |

### 3. Maximum Ratings

|                   |        |
|-------------------|--------|
| $U_{g3g5a}$ max ⑤ | 12 kV  |
| $U_{g3g5a}$ min ⑥ | 7,5 kV |
| $U_{g4}$ max      | 450 V  |
| $(-U_{g4})$ max   | 100 V  |
| $U_{g2}$ max      | 450 V  |
| $U_{g2}$ min      | 180 V  |
| $U_k$ max         | 100 V  |
| $U_k$ min         | 0 V    |
| $U_k$ p max ⑧     | 350 V  |

|                             |                                                |
|-----------------------------|------------------------------------------------|
| Electron Gun                | Tetrode with Einzel-Lens                       |
| Bulb                        | All-Glass Type                                 |
| Base                        | Special Miniature (7 Pins)                     |
| Focusing Method             | Electrostatic                                  |
| Deflection Method           | Magnetic                                       |
| Deflection Angles (approx.) | Diagonal 70°<br>Horizontal 60°<br>Vertical 50° |
| Neck Diameter               | 20 mm                                          |
| Face Shape                  | Flat                                           |
| Material                    | Clear Glass                                    |
| Screen                      | Phosphor P4 Aluminized                         |
| Minimum Useful Dimensions   | 95 x 125 mm<br>Diagonal 155 mm                 |
| Overall Length              | 205 mm max.                                    |
| Weight                      | 0,7 kg (approx.)                               |

|                         |        |
|-------------------------|--------|
| $(-U_k)$ p max          | 2 V    |
| $R_{n1}$ max            | 1,5 MΩ |
| $Z_{g1}$ (50 Hz) max    | 0,5 MΩ |
| $U_{\pm f/k}$ max ⑨     | 110 V  |
| $U_{\pm f/k}$ p max     | 130 V  |
| $R_{f/k}$ max ⑪         | 1 MΩ   |
| $Z_{f/k}$ (50 Hz) max ⑫ | 0,1 MΩ |

### 4. Ratings for Circuit Design

|          |                     |
|----------|---------------------|
| $I_{g2}$ | $\leq \pm 5 \mu A$  |
| $I_{g4}$ | $\leq \pm 25 \mu A$ |

### 5. Capacitances

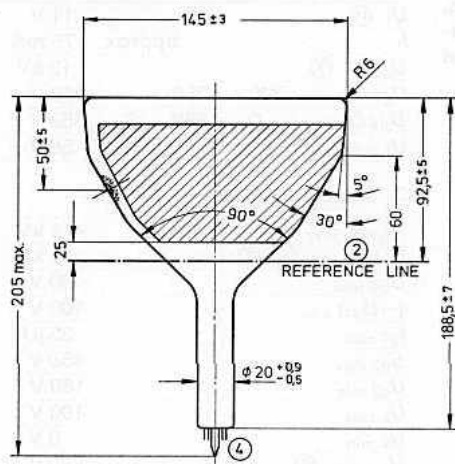
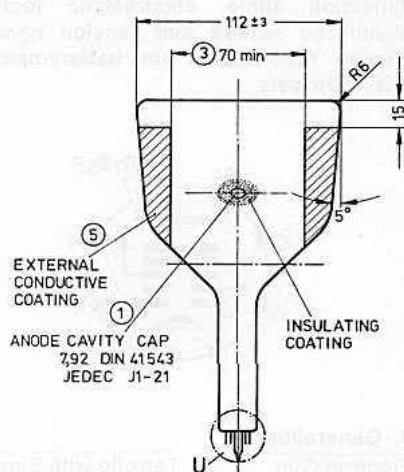
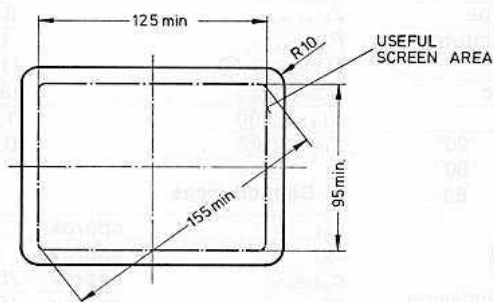
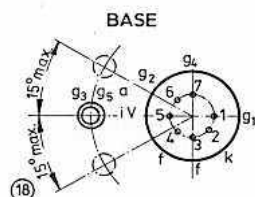
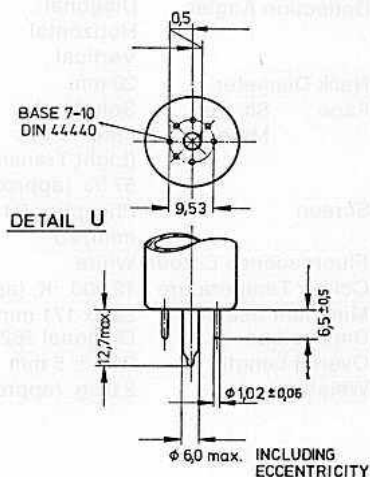
|               |                |
|---------------|----------------|
| $C_{n1}$      | approx. 6 pF   |
| $C_k$         | approx. 3 pF   |
| $C_{g3g5a/m}$ | approx. 350 pF |

# Black and White Picture Tubes

M 17-18 W

For Replacement

## Dimensional Drawings in mm



M17-18W

O Notes see pages 8 and 9

Reference line gauge see page 11