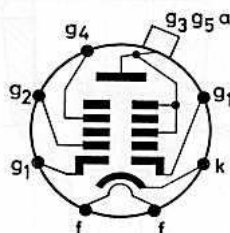


Black and White Picture Tubes

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° Horizontal 60° Vertical 50°
Neck Diameter	20 mm
Face Shape	Flat
Material	Clear Glass
Screen	Phosphor P4 Aluminized
Minimum Useful Dimensions	95 x 125 mm 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

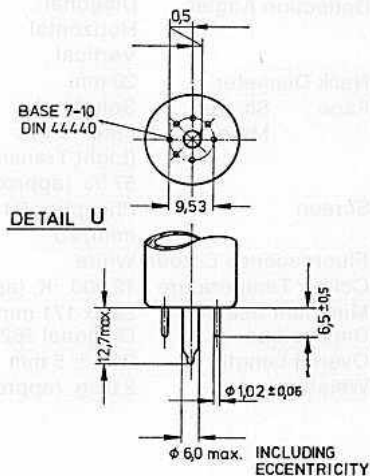
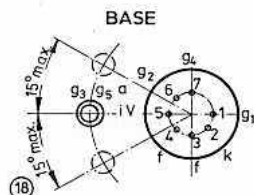
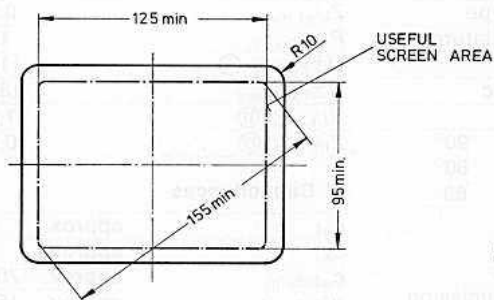
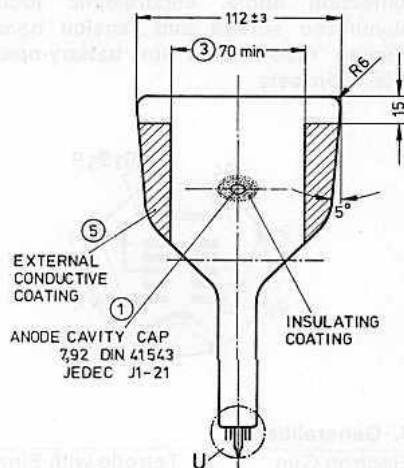
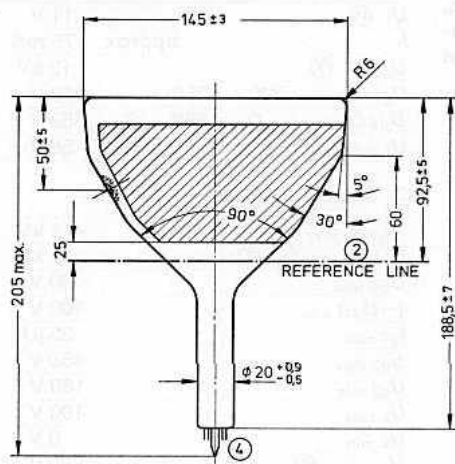
I_{g2}	$\leq \pm 5 \mu A$
I_{g4}	$\leq \pm 25 \mu A$

5. Capacitances

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

M 17–18 W

Dimensional Drawings in mm



M17-18 W

O Notes see pages 8 and 9

Reference line gauge see page 11