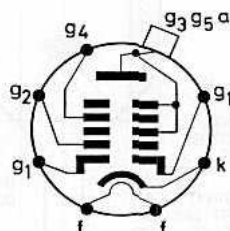


Black and White Picture Tubes

A 28-13 W

For Replacement

28 cm rectangular picture tube with 90° deflection angle, electrostatic focusing, aluminized screen and tension band including tube mount for battery-operated television sets



1. Generalities

Electron Gun	Tetrode with Einzel-Lens	
Bulb	Al-Glass Type	
Base	Special Miniature (7 Pins)	
Focusing Method	Electrostatic	
Deflection Method	Magnetic	
Deflection Angles	Diagonal	90°
	Horizontal	80°
	Vertical	63°
Neck Diameter	20 mm	
Face	Shape	Spherical
	Material	Filter-Glass (Light Transmission 57% (approx.))
Screen	Phosphor P4 Aluminized	
Fluorescence Colour	White	
Colour Temperature	12 000 °K (approx.)	
Minimum Useful Dimensions	228 x 171 mm	
Overall Length	245 ± 5 mm	
Weight	2,0 kg (approx.)	

2. Typical Operating Conditions ①

U_f ⑭	11 V	
I_f	approx. 75 mA	
U_{g3g5a} ⑦	13 kV	
U_{g2}	200 ... 350	250 V
U_{g4} ③	0 ... 350	0 ... 350 V
U_k cutoff ④	45	32 ... 58 V

3. Maximum Ratings

U_{g3g5a} max ⑤ ⑦	14 kV
U_{g3g5a} min ⑥ ⑦	10 kV
U_{g4} max	450 V
$(-U_{g4})$ max	100 V
I_{g4} max	25 μ A
U_{g2} max	450 V
U_{g2} min	180 V
U_k max	100 V
U_k min	0 V
U_{kp} max ⑧	350 V
$R_{k/g1}$ max	1,5 M Ω
$Z_{k/g1}$ max	0,5 M Ω
P_{lm} max	10 mW/cm ²
$U_{\pm f/k}$ max ⑨	110 V
$U_{\pm f/k p}$ max	130 V
$R_{f/k}$ max ⑪	1,0 M Ω
$Z_{f/k}$ max ⑫	0,1 M Ω

4. Capacitances

C_{g1}	approx.	6 pF
C_k	approx.	5 pF
$C_{g3g5a/m}$	approx.	700 pF
$C_{g3g5a/m'}$	approx.	150 pF

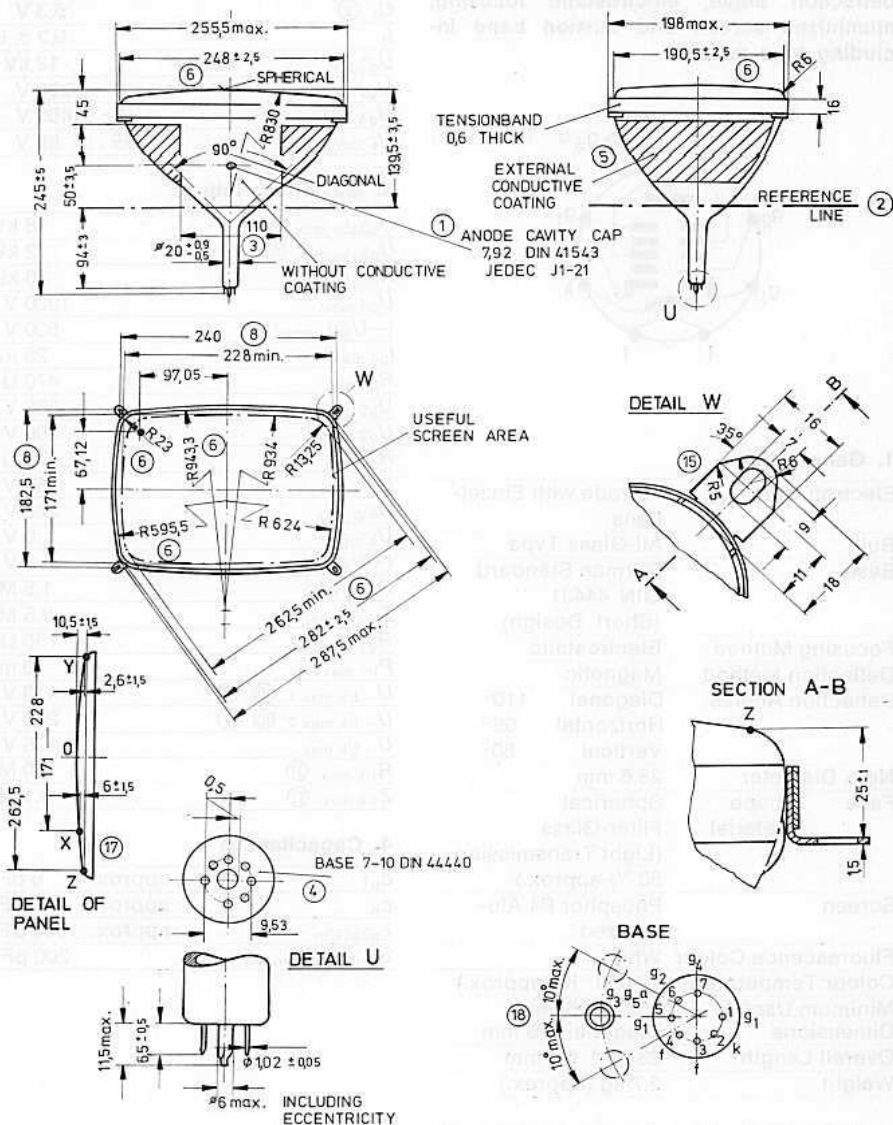
Impllosion protection by steel reinforcement.
Admitted by Association of German Electrical Engineers, VDE.

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Dimensional Drawings in mm



O Notes see pages 8 and 9

Reference line gauge see page 11