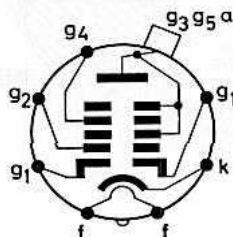


Black and White Picture Tubes

A 31-15 W

For Replacement

31 cm rectangular picture tube with 110° deflection angle, electrostatic focusing, aluminized screen and tension band including tube mount



1. Generalities

Electron Gun	Tetrode with Einzel-Lens
Bulb	All-Glass Type
Base	German Standard DIN 44431 (Short Design)
Focusing Method	Electrostatic
Deflection Method	Magnetic
Deflection Angles	Diagonal 110° Horizontal 99° Vertical 80°
Neck Diameter	28,6 mm
Face Shape	Spherical
Material	Filter-Glass (Light Transmission 53 % approx.)
Screen	Phosphor P4 Alu- minized
Fluorescence Colour	White
Colour Temperature	12 000 °K (approx.)
Minimum Useful Dimensions	257 x 195 mm Diagonal 295 mm
Overall Length	237,6 ± 6,4 mm
Weight	2,7 kg (approx.)

Implosion protection by steel reinforcement.
Admitted by Association of German Elec-
trical Engineers, VDE.

2. Typical Operating Conditions ①

U_f ②	6,3 V
I_f	0,3 ± 6% A
U_{g3g5a}	12 kV
U_{g2}	300 V
U_{g4} ③	0 ... 400 V
U_k cutoff ④	35 ... 69 V

3. Maximum Ratings

U_{g3g5a} max ⑤	18 kV
U_{g3g5a} min ⑥	12 kV
R_{g3g5a} min	16 kΩ
U_{g4} max	1000 V
$(-U_{g4})$ max	500 V
I_{g4} max	25 μA
R_{g4} min	470 Ω
U_{g2} max	550 V
U_{g2} min	200 V
R_{g2} min	470 Ω
U_k max	150 V
U_k p max	220 V
U_k min	0 V
$(-U_k)$ p max	2 V
$R_{k/g1}$ max	1,5 MΩ
$Z_{k/g1}$ max	0,5 MΩ
R_{g1} min	150 Ω
P_{lm} max	10 mW/cm²
$U - f/k$ max 1 ⑩ ⑨	410 V
$U - f/k$ max 2 ⑩ ⑨	200 V
$U + f/k$ max	135 V
$R_{f/k}$ max ⑪	1,0 MΩ
$Z_{f/k}$ max ⑫	0,1 MΩ

4. Capacitances

C_{g1}	approx.	6 pF
C_k	approx.	5 pF
$C_{g3g5a/m}$	approx.	650 pF
$C_{g3g5a/m'}$ max		200 pF

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Dimensional Drawings in mm

