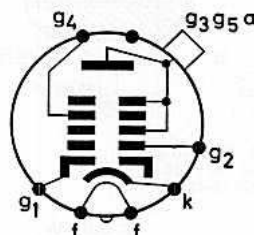


Black and White Picture Tubes

A 47-27 W/2

For Replacement

47 cm rectangular picture tube with 110° deflection angle, electrostatic focusing, aluminized screen and steel reinforcement 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 82°
Neck Diameter	28,6 mm
Face	Shape Spherical Material Filter-Glass (Light Transmission 49 % approx.)
Screen	Phosphor P4 Alu-minized
Fluorescence Colour	White
Colour Temperature	12 000 °K (approx.)
Minimum Useful Dimensions	384 x 305 mm Diagonal 446 mm
Overall Length	302,5 ± 6,5 mm
Weight	8 kg (approx.)

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

2. Typical Operating Conditions

U_f ②	6,3 V
I_f	0,3 ± 6% A
U_{g3g5a}	20 kV
U_{g2}	400 500 V
U_{g4} ③	0 ... 400 0 ... 400 V
$(-U_{g1})$ cutoff ④	40 ... 77 50 ... 93 V
U_k cutoff ④	36 ... 66 45 ... 79 V

3. Maximum Ratings

U_{g3g5a} max ⑤	20 kV
U_{g3g5a} min ⑥	13 kV
R_{g3g5a} min	16 kΩ
U_{g4} max	1000 V
U_{g4} p max	2500 V
$(-U_{g4})$ max	500 V
R_{g4} min	470 Ω
U_{g2} max	550 V
U_{g2} min	350 V
R_{g2} min	470 Ω
U_{g1} max	0 V
U_{g1} p max	2 V
$(-U_{g1})$ max	150 V
$(-U_{g1})$ p max ⑧	400 V
R_{g1} max	1,5 MΩ
Z_{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
$U_{-f/k}$ p max	300 V
$U_{+f/k}$ max	135 V
$U_{+f/k}$ p max	180 V
$R_{f/k}$ max ⑪	1,0 MΩ
$Z_{f/k}$ max ⑫	0,1 MΩ

4. Ratings for Circuit Design

I_{g2}	≤ ± 5 μA
I_{g4}	≤ ± 25 μA
$R_{m/m'}$	≥ 2 MΩ

5. Capacitances

C_{g1}	approx. 6 pF
C_k	approx. 5 pF
$C_{g3g5a/m}$ max	1500 pF
$C_{g3g5a/m}$ min	1000 pF
$C_{g3g5a/m'}$	approx. 350 pF

For Replacement

CONTACT AREA
□ 50min

SPHERICAL

EXTERNAL CONDUCTIVE COATING

ANODE CAVITY CAP
Z92 DIN 41543
JEDEC J1-21

REFERENCE LINE

INSULATING COATING WITHOUT CONDUCTIVE COATING

BASE 8-15 DIN 44.31
JEDEC B7-208
(7 PINS; SHORT TYPE)

DETAIL W

ALL ROUND BARE METAL

VIEW A

BASE

A47-27W/2

Reference line gauge see page 11