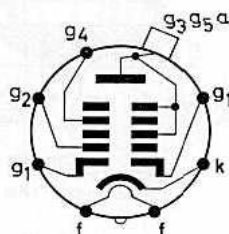


Black and White Picture Tubes

A 59-22 W

For Replacement

59 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 44 % approx.)	
Screen	Phosphor P4 Alu-minized	
Fluorescence Colour	White	
Colour Temperature	12 000 °K (approx.)	
Minimum Useful Dimensions	489 x 385 mm	
Overall Length	360 ± 8 mm	
Weight	13 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	$0,3 \pm 6\%$ 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	
$(-U_{g4})$ max	500 V	
U_{g4} p max ⑧	2500 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_{Im} max	10 mW/cm ²	
$U_{-f/k}$ max 1 ⑩ ⑨	410 V	
$U_{-f/k}$ max 2 ⑩ ⑨	250 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

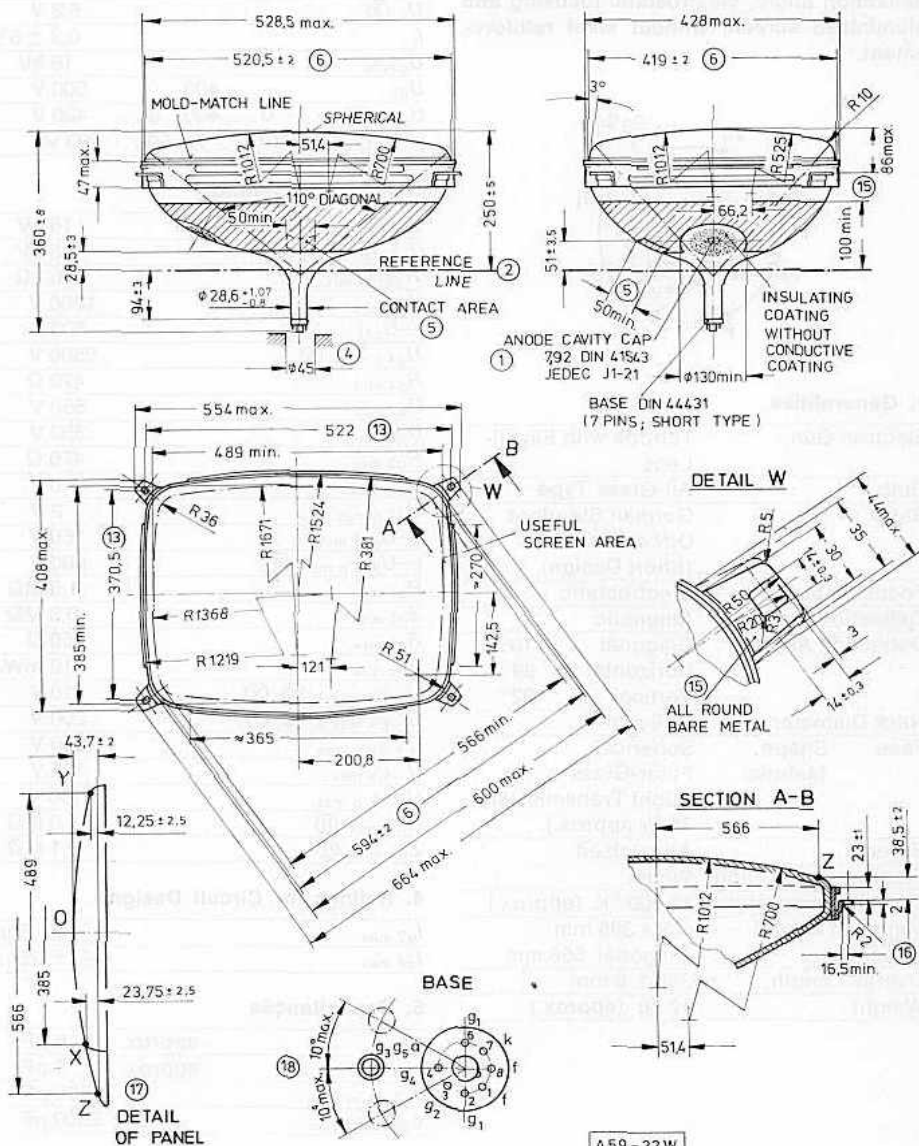
I_{g2}	$\leq \pm 5 \mu A$
I_{g4}	$\leq \pm 25 \mu A$
$R_{m/m'}$	$\geq 2 M\Omega$

5. Capacitances

C_{g1}	approx.	6 pF
C_k	approx.	5 pF
$C_{g3g5a/m}$ max	2600 pF	
$C_{g3g5a/m}$ min	1700 pF	
$C_{g3g5a/m'}$ max	580 pF	
$C_{g3g5a/m'}$ min	380 pF	

A 59—22 W

Dimensional Drawings in mm



Reference line gauge see page 11