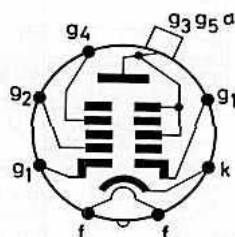


Black and White Picture Tubes

AW 59-91

For Replacement

59 cm rectangular picture tube with 110° deflection angle, electrostatic focusing and aluminized screen, without steel reinforcement.



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 75 % approx.)
Screen	Aluminized	
Fluorescence Colour	White	
Colour Temperature	12 000 °K (approx.)	
Minimum Useful	489 x 385 mm	
Dimensions	Diagonal 566 mm	
Overall Length	358 ± 8 mm	
Weight	12 kg (approx.)	

2. Typical Operating Conditions

U_f ②	6,3 V
I_f	$0,3 \pm 6\%$ A
U_{g3g5a}	18 kV
U_{g2}	400 500 V
U_{g4} ③	0 ... 400 0 ... 400 V
$(-U_{g1})$ cutoff ④	40 ... 77 50 ... 93 V

3. Maximum Ratings

U_{g3g5a} max ⑤	18 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_{lm} max	10 mW/cm ²
$U_{-f/k}$ 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	125 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

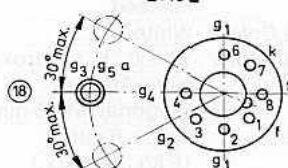
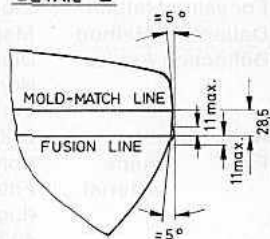
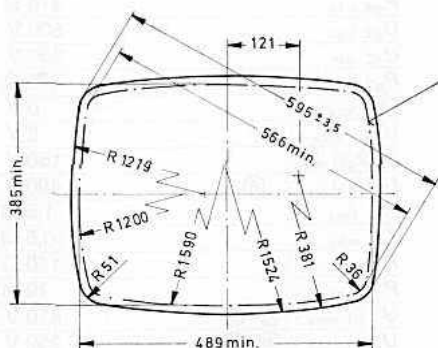
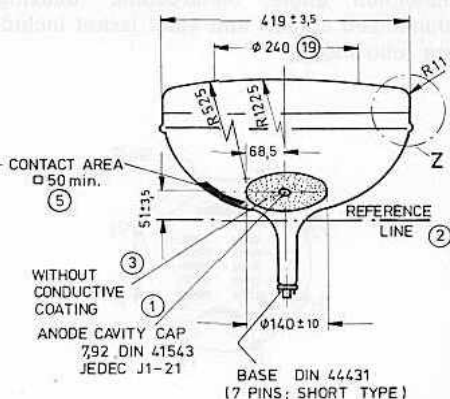
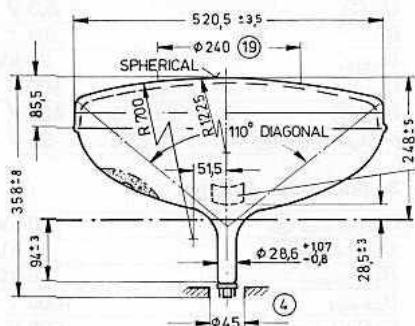
I_{g2} max	$\leq \pm 5 \mu A$
I_{g4} max	$\leq \pm 25 \mu A$

5. Capacitances

C_{g1}	approx.	6 pF
C_k	approx.	5 pF
$C_{g3g5a/m}$ min		1700 pF
$C_{g3g5a/m}$ max		2500 pF

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Dimensional Drawings in mm



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O Notes see pages 8 and 9

Reference line gauge see page 11