

TYPICAL OPERATING CONDITIONS

Final accelerator voltage	$V_{g_3, g_5(\ell)}$	14	16	kV
Focusing electrode voltage	V_{g_4}	0 to 400	0 to 400	V
First accelerator voltage	V_{g_2}	400	600	V
Grid no.1 voltage for extinction of focused raster	V_{g_1}	-30 to -62	-40 to -90	V

RESOLUTION

Resolution at screen centre measured with shrinking raster method (non-interlaced raster)

at $V_{g_3, g_5(\ell)} = 14$ kV, $V_{g_2} = 400$ V, $I_{\ell} = 50 \mu\text{A}$, $B = 500 \text{ cd/m}^2$ (500 nit)	min.	650	lines	¹⁾
at $V_{g_3, g_5(\ell)} = 16$ kV, $V_{g_2} = 600$ V, $I_{\ell} = 50 \mu\text{A}$, $B = 600 \text{ cd/m}^2$ (600 nit)	min.	700	lines	¹⁾

LIMITING VALUES (Absolute max. rating system)

Final accelerator voltage	$V_{g_3 g_5(\ell)}$	max.	18	kV		
		min.	12	kV		
Focusing electrode voltage	V_{g_4}	max.	1	kV		
		$-V_{g_4}$	max.	0.5	kV	
First accelerator voltage	V_{g_2}	max.	800	V		
		min.	300	V		
Grid no.1 voltage, negative	$-V_{g_1}$	max.	150	V		
		positive	V_{g_1}	max.	0	V
		positive peak	$V_{g_1 p}$	max.	2	V
Cathode to heater voltage, positive	V_{kf}	max.	250	V		
		positive peak	$V_{kf p}$	max.	300	V
		negative	$-V_{kf p}$	max.	135	V
		negative peak	$-V_{kf p}$	max.	180	V

WARNING

X-ray shielding of the cone is advisable to give protection against possible danger of personal injury arising from prolonged exposure at close range to this tube when operated above 14 kV.

¹⁾ If necessary the resolution can be improved by the use of a beam centring magnet. This magnet, type number 3322 142 11401, is supplied with each tube.

²⁾ During a warm-up period not exceeding 15 s the heater may be 410 V negative with respect to cathode.

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18-1-80
Sieben af

MONITOR TUBE

17 cm flat-faced rectangular picture tube primarily intended for use as a viewfinder in television cameras. The tube is provided with a bonded face plate and a metal mounting band.

QUICK REFERENCE DATA

Deflection angle, diagonal	70 °
Focusing	electrostatic
Resolution	min. 700 lines
Overall length	max. 240 mm

SCREEN

Metal-backed phosphor	
Luminescence	white
Useful rectangle	min. 124 x 93 mm ²

HEATING

Indirect by A.C. or D.C.; parallel supply

Heater voltage	V_f	6.3 V
Heater current	I_f	300 mA

MECHANICAL DATA

Mounting position: any

Base: Neo Eightar (B8H)

Cavity contact CT8

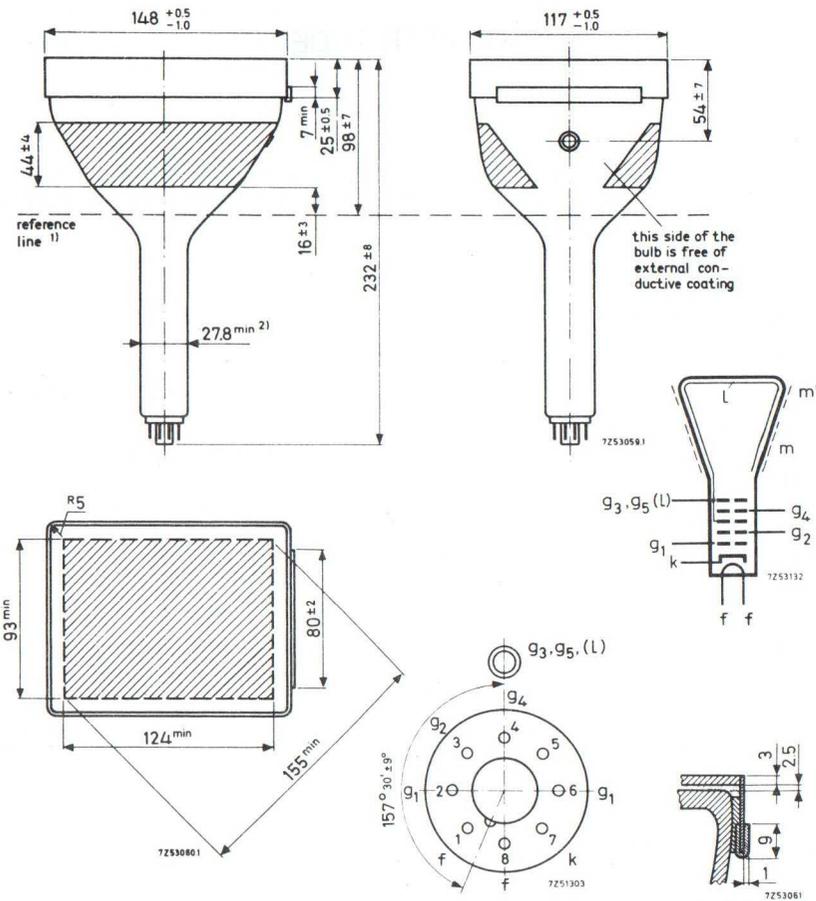
Accessories

Final-accelerator contact connector 55563A



MECHANICAL DATA

Dimensions in mm



1) Reference line, determined by the plane of the upper edge of the flange of the reference line gauge when the gauge is resting on the cone.

2) The maximum dimension is determined by the reference line gauge.

Monitor tube

FOCUSING Electrostatic

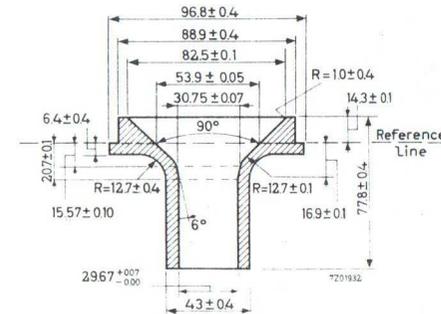
The range of focus voltage shown under "Typical operating conditions" results in optimum focus at a beam current of 50 μ A.

DEFLECTION Magnetic 1)

Diagonal deflection angle 70°

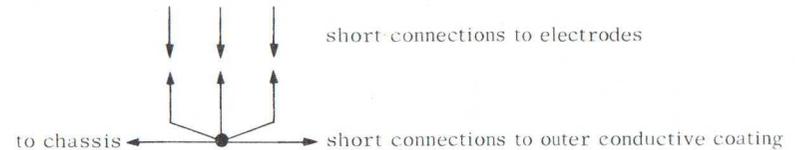
REFERENCE LINE GAUGE

Dimensions in mm



REMARK

With the high voltage used with this tube internal flash-overs may occur, which may destroy the cathode. Therefore it is necessary to provide protective circuits using sparkgaps. The sparkgaps must be connected as follows:



No other connections between outer conductive coating and chassis are permissible.

CAPACITANCES

Final accelerator to metal band	$C_{g_3, g_5(l)}/m'$	135 pF
Final accelerator to external conductive coating	$C_{g_3, g_5(l)}/m$	240 pF
Cathode to all other elements	C_k	5 pF
Grid No.1 to all other elements	C_{g_1}	7 pF

1) Recommended deflection coil AT1071/07

