OK 10-1-80
Sieb

M17-140W

TYPICAL OPERATING CONDITIONS

Final accelerator voltage	$V_{g_3,g_{5(\ell)}}$		14	kV
Focusing electrode voltage	V_{g_4}	0 to	400	V
First accelerator voltage	V_{g_2}		400	V
Grid no.1 voltage for extinction of focused raster	V_{g_1}	-30 to	-62	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_ℓ = 50 μA, B = 500 cd/m^2 (500 nit) min. 650 lines [1]

LIMITING VALUES (Absolute max. rating system)

Final accelerator voltage	$V_{g_3,g_{5(\ell)}}$	max.	16	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	[2]
negative	$-V_{kf}$	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.

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[1] If necessary the resolution can be inproved 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 the cathode.

MONITOR TUBE

17 cm flat-faced rectangular picture tube primarily intended for use as a viewfinder in television cameras.

QUICK REFERENCE DATA

Deflection angle, diagonal		70	°
Focusing		electrostatic	
Resolution	min.	650	lines
Overall length	max.	234	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

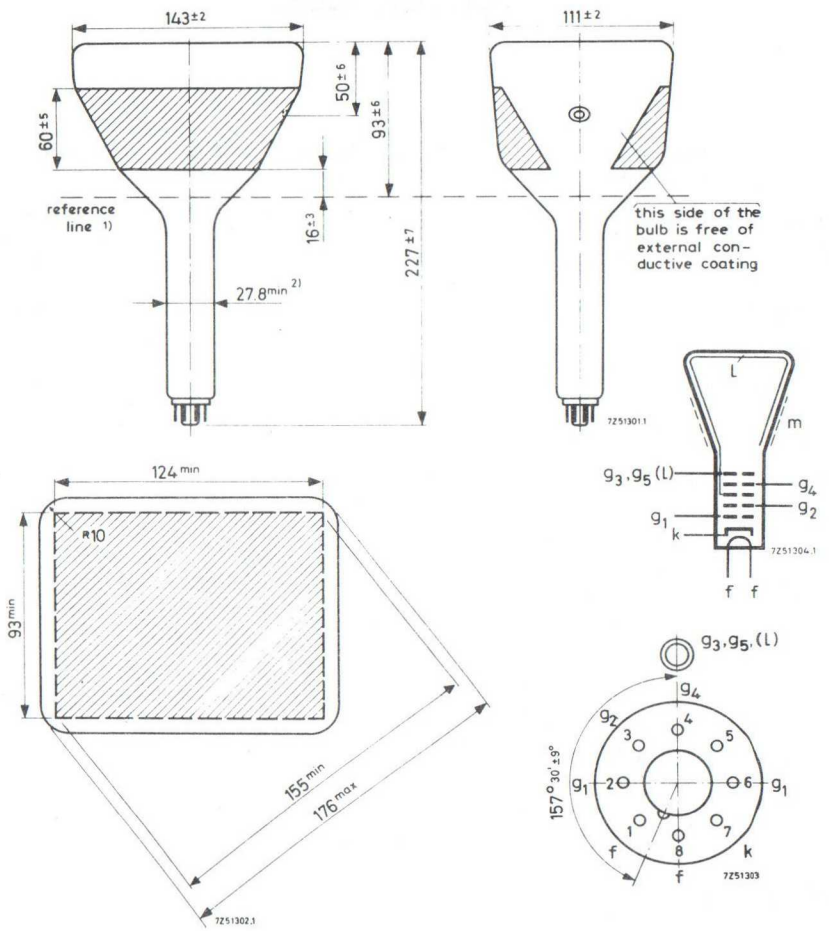
MECHANICAL DATA

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.

FOCUSING Electrostatic

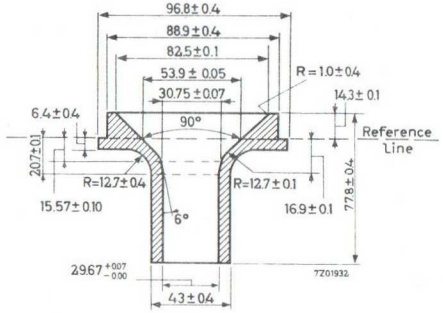
The range of focus voltage shown under "Typical operating conditions" results in optimum focus at a beam current of 50 μA.

DEFLECTION Magnetic [1]

Diagonal deflection angle 70^{o}

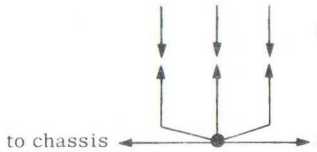
REFERENCE LINE GAUGE

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 external conductive coating	$C_{g_3 \cdot g_5(\ell)/m}$	300 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