

RADAR CATHODE RAY TUBES with round metal-backed 41 cm (16") screen, magnetic deflection and magnetic focusing

HEATING

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

Heater voltage $V_f = 6.3 \text{ V}$

Heater current $I_f = 300 \text{ mA}$

CAPACITANCES

Grid No.1 to all other elements $C_{g1} < 8 \text{ pF}$

Cathode to all other elements $C_k < 8 \text{ pF}$

SCREEN: metal-backed, clear glass

Colour orange with
orange afterglow

Persistence very long

Useful diameter 368 mm

For curves of the screen properties please refer to front of this section

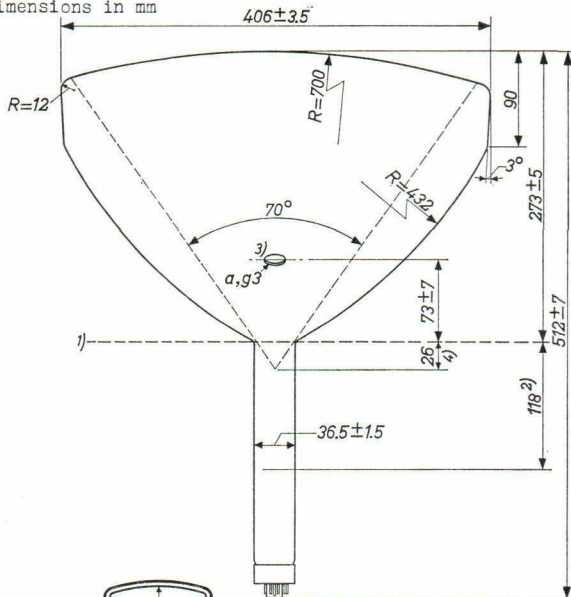
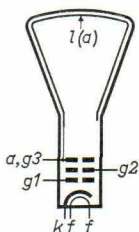
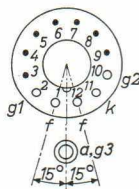
FOCUSING: magnetic

DEFLECTION: double magnetic

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Dimensions in mm



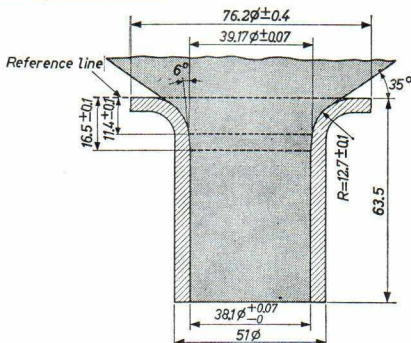
Base: DUODECAL 5 p

- 1) Reference line, see page 3
- 2) Recommended distance from reference line to centre of magnetic length of focusing unit
- 3) Recessed cavity contact
- 4) Distance from reference line to effective centre of deflection

MOUNTING POSITION



REFERENCE LINE GAUGE



The reference line is determined by the plane of the upper edge of the reference line gauge when the gauge is resting on the cone.

OPERATING CHARACTERISTICS

Grid No.3 voltage

$V_{g3} = 15 \text{ kV}$

Grid No.2 voltage

$V_{g2} = 300 \text{ V}$

Grid NO.1 voltage for visual cut-off

$V_{g1} = -30 \text{ to } -70 \text{ V } ^1)$

Location of focusing unit

$A = 118 \text{ mm } ^2)$

¹⁾ Grid No.1 voltage for visual extinction of undeflected focused spot. See also page B.

²⁾ Recommended distance from reference line to centre of magnetic length of focusing unit

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LIMITING VALUES (Absolute limits)

Grid No.3 voltage	V_{g3}	= max. 16 kV = min. 8 kV
Grid No.2 voltage	V_{g2}	= max. 500 V = min. 200 V
Negative grid No.1 voltage	$-V_{g1}$	= max. 200 V = min. 1 V
Voltage between heater and cathode		
cathode negative	V_{kf}	= max. 150 V
cathode positive	V_{kf}	= max. 150 V

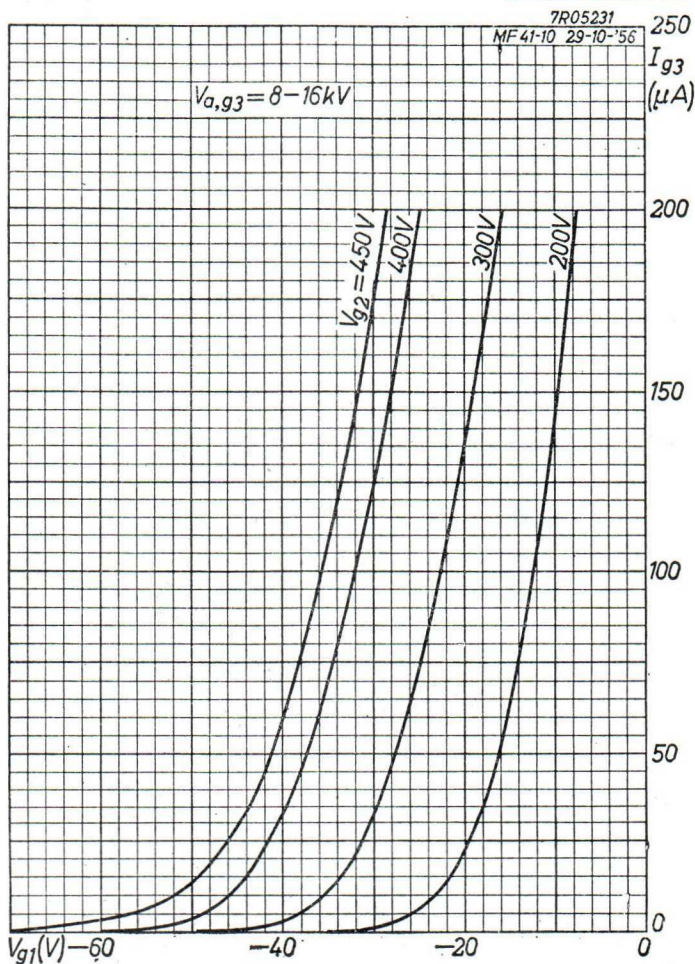
MAXIMUM CIRCUIT VALUES

Grid No.1 circuit resistance	R_{g1}	= max. 1.5 M Ω
Grid No.1 circuit impedance at 50 c/s	Z_{g1}	= max. 0.5 M Ω
Circuit resistance between heater and cathode	R_{kf}	= max. 1)

¹⁾ When the heater is supplied from a separate transformer R_{kf} = max. 1 M Ω . When the heater is in a series chain or earthed, Z_k = max. 0.1 M Ω , where Z_k is the 50 c/s impedance between earth and cathode

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