



ELECTRONIC TUBE REFERENCE

M17143WE

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Seventeen-centimeter high-resolution bonded-face monitor CRT with magnetic deflection and electrostatic focusing, combining detailed display resolution with a reinforced viewing face.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B8H	BASE PINS	8
NOMINAL HEATER	6.3 V / 240 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray

No fixed ratings recorded.

17 cm high-resolution bonded-face monitor cathode-ray tube

17 cm high-resolution bonded-face monitor cathode-ray tube. The Philips sheet specifies magnetic deflection, electrostatic focusing, heater data, screen and resolution characteristics, capacitances, recommended operating voltages, limiting values, and X-radiation limits where published.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS E-Z

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MONITOR TUBES	17 cm	—
Face diagonal	17 cm	—
Neck diameter	28 mm	—
Overall length max	240 mm	—
Screen dimensions min [1]	124 mm	—
Screen dimensions min [2]	93 mm	—
Resolution at V [1]	16 kV	—
Resolution at V [2]	1250 TV lines	—
340 November	1987 W	—
Overall length 232	8 mm	—
Neck diameter min	27.8 mm	—
Base neo eightar, B8H; IEC 67-1	31 A	—
Net mass approx	1 kg	—
Final accelerator contact connector	55563 A	—
342 November	1987 W	—
at V_g ,35(2) =14 l.(V, V92	400 V	—
1g [1]	20 A	—
1g [2]	1050 TV lines	—
at V_g '85"2) [1]	16 kV	—
at V_g '85"2) [2]	600 V	—
1g [1]	20 pA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
lg [2]	1250 TV lines	—
X-radiation limit curves, at a constant anode current of	250 μ A	—
3% bUtro,,	25 s	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
final accelerator to metal band Cg3,95(%) / m'	135 pF	—
final accelerator to external conductive coating Gg3,95(2) / m	240 pF	—
cathode to all other elements Ck	3.6 pF	—
grid 1 to all other elements Cq1	7 pF	—
heater voltage V ϕ	63 V	—
heater current I ϕ	240 mA	—
current at equilibrium conditions approx	5 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Final accelerator voltage Vg3,95(2) 14	16 kV	—
Focusing electrode voltage Vg4 0 to 400* 0to	400 V	—
First accelerator voltage V92 400	600 V	—
Cut-off voltage for visual extinction of focused spot – Vg1 30 to 62 40t0	90 V	—
LIMITING VALUES	18 kV	—
Vg3,95(0) min	12 kV	—
Vg4 max	1 kV	—
~Vga max	5 kV	—
max	800 V	—
min	300 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
positive peak max	2 V	—
For optimum focus at a beam current of	50 μ A	—
of the human eye, on a 312-lines raster with dimensions [1]	70 mm	—
of the human eye, on a 312-lines raster with dimensions [2]	70 mm	—

TUBE TINKER

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