

ELECTRONIC TUBE REFERENCE

M17142WE

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Seventeen-centimeter high-resolution monitor CRT with magnetic deflection and electrostatic focusing. Its screen and resolution characteristics are designed for detailed professional direct-view monitoring.

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

SECTION1 Cathode Ray
No fixed ratings recorded.
17 cm high-resolution monitor cathode-ray tube

17 cm high-resolution 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 diagona!	17 cm	—
Neck diameter	28 mm	—
Overall length max	234 mm	—
Screen dimensions min [1]	124 mm	—
Screen dimensions min [2]	93 mm	—
Resolution min	1050 TV lines	—
diagonal min	165 mm	—
horizontal axis min	124 mm	—
vertical axis min	93 mm	—
332 November 1	987 W	—
Overall length 227 +	7 mm	—
Neck diameter min	27.8 mm	—
Base neo eightar, B8H; [EC67-1	31 A	—
Net mass approx	0.7 kg	—
Final accelerator contact connector	55563 A	—
at V93,35(Q) =14 I'<V, Vg2	400 V	—
I _g [1]	20 pA	—
I _g [2]	1050 TV lines	—
X-radiation limit curves, at a constant anode current of	250 μA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
arising from prolonged exposure at close range to this tube when operated above	14 kV	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
final accelerator to external conductive coating Cq3,95(2)/m	300 pF	—
cathode to all other elements Ck	3.6 pF	—
grid 1 to all other elements Cq1	7 pF	—
heater voltage Vi	63 V	—
heater current I _h	240 mA	—
current at equilibrium conditions approx	5 s	—

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

TUBE TINKER

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