



ELECTRONIC TUBE REFERENCE

MW4364

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Direct-view monochrome television picture tube with magnetic beam scanning and high-voltage operation. Manufacturer documentation identifies it for television receiver service and provides the applicable screen, focusing, and deflection construction.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	16000 V
<i>Rectangular all-glass television picture tube with filter glass, ion trap, magnetic focusing, and magnetic deflection.</i>	

Rectangular television picture tube with ion trap and filter glass, magnetic focusing, and magnetic deflection.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—
DeflectionMethod	Magnetic	—
FocusingMethod	Magnetic	—
IonTrapPresent	1 boolean	—
FilterGlassPresent	1 boolean	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TypicalAcceleratingVoltage	14000 V	—
MaximumAcceleratingVoltage	15000 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V2

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V2

Section 1 · Cathode Ray

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-1 capacitance	7 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen color	White	—
Color temperature	7500 K	—
Light transmission	66 %	—
Useful diagonal	390— mm	Minimum
Useful width	362— mm	Minimum
Useful height	273— mm	Minimum
Vertical deflection angle	—52 deg	—
Horizontal deflection angle	—65 deg	—
Grid-4 voltage	14000 V	—
Grid-2 voltage	300 V	—
Grid-3 voltage	0–250 V	—
Maximum grid-4 voltage	16000 V	—
Minimum grid-4 voltage	10000 V	—
Maximum grid-3 bias magnitude	100 V	—
Maximum grid-1 bias magnitude	150 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-1 cutoff-voltage magnitude	40–86 V	—
Focusing ampere-turns	1015–1065 A-turns	—



SOURCE DATA APPENDIX

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitance	7 pF	Capacitances Cg1 = 7 pF
Capacitance	5	Capacités c _ 5 oF
Capacitance	5	Capacités o _ 5 bF

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	9.5 V	heater voltage must not exceed 9.5 V when the supply
Heater voltage	9.5 V	darf die Heizspannung beim Einschalten 9,5 V nicht
Deflection	2	Der Abstand des Ablenkungsmittelpunktes bis 2zur Be-
Deflection	0	Vertical deflection angle 0