



ELECTRONIC TUBE REFERENCE

MW5380

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Philips television projection CRT designed to generate a bright image for optical enlargement rather than ordinary direct viewing. Its high-voltage picture-tube construction supports projected television display.

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	18000 V
Rectangular all-glass television picture tube with filter glass, metal-backed screen, ion trap, magnetic focusing, and 90-degree magnetic deflection.	

The Philips MW5380 is a television picture/projection cathode-ray tube.



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—



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	—
Cathode capacitance	4 pF	—
Cathode-plus-grid-3 capacitance	9 pF	—
Anode/grid-4 to outer-coating capacitance	1250–1750 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen color	White	—
Light transmission	75 %	—
Useful diagonal	511— mm	Minimum
Useful width	482— mm	Minimum
Useful height	378— mm	Minimum
Anode/grid-4 voltage	14000 V	OperatingPoint1
Anode/grid-4 voltage	16000 V	OperatingPoint2
Grid-2 voltage	300 V	—
Grid-3 voltage	0–300 V	—
Maximum anode/grid-4 voltage	18000 V	—
Minimum anode/grid-4 voltage	12000 V	—
Maximum grid-3 voltage	500 V	—
Maximum grid-2 voltage	500 V	—
Minimum grid-2 voltage	200 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vertical deflection angle	65 deg	—
Grid-1 cutoff-voltage magnitude	40–80 V	—



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ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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 Ce: = 7 pF

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitance	7 pF	Capacitances Cgi = 7 pF
Capacitance	7 pF	Capacitances 73 = 7 pF

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection	90	magnetic focusing and 90° magnetic deflection
Deflection	90	Fokussierung und 90° magnetischer Ablenkung
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	3	3)Space for deflection coils apd focusing device
Focusing	8	— For focusing coil please refer to page 8
Focusing	8	Fokussierungsspule siehe Seite 8
Focusing	8	For focusing coil please refer %o page 8
Focusing	8	Ifoc ist der Strom der auf Selte 8 beschriebene Fokussie-

TUBE TINKER

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