

ELECTRONIC TUBE REFERENCE

MW434302

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 / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	16000 V
Rectangular television picture tube, /02 variant, with magnetic focusing and magnetic deflection.	

Rectangular television picture tube with metal cone, ion trap, and filter glass.



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	600 mA	—
DeflectionMethod	Magnetic	—
FocusingMethod	Magnetic	—
UsefulScreenWidthMinimum	365 mm	—
IonTrapPresent	1 boolean	—
FilterGlassPresent	1 boolean	—

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



SOURCE OPERATING CONDITIONS

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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

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen color	White	—
Color temperature	7500 K	—
Light transmission	66 %	—
Useful width	365— mm	Minimum
Useful height	272— mm	Minimum
Vertical deflection angle	—53 deg	—
Horizontal deflection angle	—66 deg	—
Grid-3 voltage	14000 V	—
Grid-2 voltage	300 V	—
Maximum grid-3 voltage	16000 V	—
Minimum grid-3 voltage	10000 V	—
Maximum grid-2 voltage	410 V	—
Minimum grid-2 voltage	200 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-1 cutoff-voltage magnitude	33–77 V	—
Focusing ampere-turns	1020 A-turns	—



SOURCE DATA APPENDIX

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitance	7 pF	Capacitgnces Cg1 = 7 pF
Capacitance	7 pF	Capacitances Ce1 = 7 pF

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection	3	3)space for deflection
Deflection	3	3)Space for deflection

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