

ELECTRONIC TUBE REFERENCE

5820

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CAMERAPICKUP

High-sensitivity image-orthicon television camera tube designed for studio, outdoor, or color pickup service.

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 CameraPickup
No fixed ratings recorded.
Promoted fields mapped by printed headings; additional data retained in parameters.

Television camera pickup tube for outdoor and studio use.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · CameraPickup

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	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.

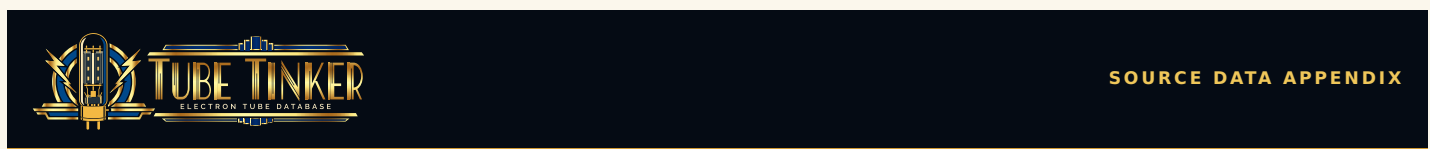
1963 PHILIPS ELECTRON TUBES HANDBOOK V2

Section 1 · CameraPickup

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	600 mA	—
Focusing method	Magnetic	—
Deflection method	Magnetic	—
Useful image diagonal	40 mm	—
Grid 6 bias magnitude	250–400 V	—
Grid 5 voltage	0–125 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 4 voltage	140–250 V	—
Grid 3 voltage	225–330 V	—
Grid 2/screen-1 voltage	300 V	—
Grid 1 bias magnitude	45–115 V	—
Output anode voltage	1250 V	—
Output anode current	30 uA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode capacitance	12 pF	—



SOURCE OPERATING CONDITIONS

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · CameraPickup

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode–Unipotential Over-all Length. 15.20+	0.25 in	Published datasheet line; semantic text-layer recovery
Heater Voltage, ACor DC... 6.3=10%, Volts Greatest Diameter of Bulb 3.00+=	0.06 in	Published datasheet line; semantic text-layer recovery
Heater Current	600 mA	Published datasheet line; semantic text-layer recovery
Photocathode–Semi-transparent Diameter	234 in	Published datasheet line; semantic text-layer recovery
Response–S-10 Deflecting Coil Length	5 in	Published datasheet line; semantic text-layer recovery
Rectangular Image, 4 by 3 aspect ratio Focusing Coil Length	10 in	Published datasheet line; semantic text-layer recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful Size, maximum diagonal... .. 1.8	1 in	Published datasheet line; semantic text-layer recovery
Deflecting Method—Magnetic the tube axis at an angle of less than	20 deg	Published datasheet line; semantic text-layer recovery
Photocathode Voltage. —	550 V	Published datasheet line; semantic text-layer recovery
Photocathode Voltage. —	350 V	Published datasheet line; semantic text-layer recovery
Anode Supply Voltage™	1350 V	Published datasheet line; semantic text-layer recovery
Anode Supply Voltage™	6 V	Published datasheet line; semantic text-layer recovery
Grid-No. 1 Voltage Negative Value	10 V	Published datasheet line; semantic text-layer recovery
Negative Bias Value	125 V	Published datasheet line; semantic text-layer recovery
Positive Bias Value	0 V	Published datasheet line; semantic text-layer recovery
Grid-No. 2 and Dynode-No. 1 Voltage	350 V	Published datasheet line; semantic text-layer recovery
PublishedData	125 V	Published datasheet line; semantic text-layer recovery
Grid-No. 3 Voltage	400 V	Published datasheet line; semantic text-layer recovery
Grid-No. 4 Voltage	300 V	Published datasheet line; semantic text-layer recovery
Grid-No. 5 Voltage	150 V	Published datasheet line; semantic text-layer recovery
Grid-No. 6 Voltage. —	550 V	Published datasheet line; semantic text-layer recovery
focus. -400 to —	540 V	Published datasheet line; semantic text-layer recovery
focus. -400 to —	1 V	Published datasheet line; semantic text-layer recovery
Cutoff, beam..... -45to =	115 V	Published datasheet line; semantic text-layer recovery
Voltage	300 V	Published datasheet line; semantic text-layer recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
focus. . . 225 to	330 V	Published datasheet line; semantic text-layer recovery
Grid-No. 4 Voltage. beam focus 140 to	180 V	Published datasheet line; semantic text-layer recovery
Grid-No, 5 Voltage, decelerator. 0to	125 V	Published datasheet line; semantic text-layer recovery
Voltage, approximate..... -300 to -	405 V	Published datasheet line; semantic text-layer recovery
Voltage, approximate..... -300 to -	20 V	Published datasheet line; semantic text-layer recovery
Dynode-No. 2 Voltage	600 V	Published datasheet line; semantic text-layer recovery
Dynode-No. 3 Voltage	800 V	Published datasheet line; semantic text-layer recovery
Dynode-No. 4 Voltage	1000 V	Published datasheet line; semantic text-layer recovery
Dynode-No. 5 Voltage	1200 V	Published datasheet line; semantic text-layer recovery
Anode Voltage	1250 V	Published datasheet line; semantic text-layer recovery
The target supply voltage should be adjustable from =3 to +	35 V	Published datasheet line; semantic text-layer recovery
+	2 V	Published datasheet line; semantic text-layer recovery



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · CameraPickup

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	600 mA	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Magnetic	—
Deflection method	Magnetic	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid capacitance	12 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Photocathode voltage range	-400 to -540 V	—
Image target current range	1-15 μ A	—
Anode voltage	1250 V	—
Anode current	30 μ A	—
Maximum anode supply voltage	1350 V	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

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