

ELECTRONIC TUBE REFERENCE

XQ1272

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CAMERAPICKUP

Compact Vidicon television camera tube with electrostatic focusing, magnetic deflection, and low heater consumption.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Small button miniature 7-pin (IEC67-1-10a, JEDEC E	BASE PINS	–
NOMINAL HEATER	6.3 V / 95 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 CameraPickup
No fixed ratings recorded.
Published electrical data additionally captured in parameter rows.

Small vidicon camera tube intended for compact television cameras, with electrostatic focusing, magnetic deflection, low heater consumption, and published optical and electrical characteristics.

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 · CameraPickup

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Resolution =400 TV lines	400	Resolution =400 TV lines
Heater current, at $V_{\phi} = 6,3 \text{ V}$ If	95 mA	Heater current, at $V_{\phi} = 6,3 \text{ V}$ If 95 mA
Grid	1	Grid 1 voltage,
Cathode heating time before drawing cathode current th min	1	Cathode heating time before drawing cathode current th min. 1 min
Grid	500	Grid 5 and grid 6 voltage $V_{g5,96}$ 500
Grid	55	Grid 4 voltage V_{g4} 35 to 55
Grid	300	Grid 5, grid 3 and grid 2 voltage $V_{g5,93,92}$ 300
Grid	1	Grid 1 voltage V_{gt} adjusted for sufficient beam-
current of	40	current of 20 nA (see Fig. 1) V_{as} 10 25 40
c.t	150	c.t. 2856 K, dark current 20 nA ls 80 150 nA
Decay: residual signal current	200	Decay: residual signal current 200 ms
Grid	1	Grid 1 voltage for picture cut-off
for signal currents between	0.02	for signal currents between 0,02 and
3. Signal current is defined as the component of the output current after the dark current has been	3	3. Signal current is defined as the component of the output current after the dark current has been
area, target voltage adjusted for a dark current of	20	area, target voltage adjusted for a dark current of 20 nA, beam set for correct stabilization.
area. Signal electrode voltage adjusted for a dark current of	8	area. Signal electrode voltage adjusted for a dark current of 20 nA, illumination on target 8 Ix

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Fig	30	Fig. 1 Dark current range. Scanned area 6,6 mm x 8,8 mm. Faceplate temperature ~ 30 °C.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Signal electrode voltage Vas max	80 V	Signal electrode voltage Vas max. 80 V
Grid	600 V	Grid 6 and grid 6 voltage Vg5,96 Max. 600 V
Grid	350 V	Grid 4 {beam focus electrode) voltage Vg4 max. 350 V
Grid	350	Grid 5, grid 3 and grid 2 voltage Vg5,g3,g2 Max. 350 Vv
Dark current, peak 'dp max	0.15	Dark current, peak 'dp max. 0,15 uA
Output current, peak : lasp max	5	Output current, peak : lasp max. 05 uA TM
Limiting resolution in picture centre	550	Limiting resolution in picture centre 500 550 TV lines

TUBE TINKER

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