



ELECTRONIC TUBE REFERENCE

7513

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CAMERAPICKUP

Long-life image-orthicon television camera tube for live color pickup under low lighting. A high-gain thin-film semiconductor target, field mesh, magnetic focusing, and deflection provide sensitive color-camera imaging.

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

SECTION 1 CameraPickup

No fixed ratings recorded.

Promoted fields mapped by printed headings; additional data retained in parameters.

Image orthicon television camera tube for live color pickup under low lighting, with a high-gain thin-film semiconductor target, field mesh, magnetic focus and deflection, and long-life design.

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
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

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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
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

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Dynade-No. 4 Voltage	1000 V	Published datasheet line; semantic text-layer recovery
Dynode-No. 5 Voitage	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

TUBE TINKER

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

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