

ELECTRONIC TUBE REFERENCE

8093

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CAMERAPICKUP

Image-orthicon television camera tube with field mesh, magnetic focusing, and magnetic deflection. Designed for improved television picture performance, it converts a photoelectron image into a scanned electrical video signal.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	63 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.

Image orthicon television camera tube with field mesh, magnetic focus and deflection, and improved picture performance for television camera service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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.....63=10% Valts Greatest Diameter of Bulb. ., ... 3.00=	0.06 in	Published datasheet line; semantic text-layer recovery
PublishedData	600 mA	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 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
Anode Supply Voltage*	1350 V	Published datasheet line; semantic text-layer recovery
Anode Supply Voltage*	10 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

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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. 4 Voltage	10 V	Published datasheet line; semantic text-layer recovery
Grid-No. 5 Voltage	150 V	Published datasheet line; semantic text-layer recovery
focus.....c.oooiviiiannn -400 to -	540 V	Published datasheet line; semantic text-layer recovery
focus.....c.oooiviiiannn -400 to -	41 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
plier focus. 225 to	330 V	Published datasheet line; semantic text-layer recovery
CUS. ittt 140 to	180 V	Published datasheet line; semantic text-layer recovery
] o 0to	125 V	Published datasheet line; semantic text-layer recovery
ator-75 percent of Photo- ing Valtage	5 V	Published datasheet line; semantic text-layer recovery
mate. c.ooiiia.. - 300 to ~	405 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	10600 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

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I Adjustable from -3 to	-5 V	Published datasheet line; semantic text-layer recovery
I Adjustable from -3 to	2 V	Published datasheet line; semantic text-layer recovery