ELECTRONIC TUBE REFERENCE

6411

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
IMAGECONVERTERINTENSIFIER

Electrostatically focused image-converter tube designed to convert near-infrared images into visible phosphor-screen images.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	_ / _	**PARALLEL HEATER**	_ / _
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 ImageConverterIntensifier

No fixed ratings recorded.

Image-converter electron-optical structure; published voltages and performance retained in parameters.

The ITT 6411 is a near-infrared image-converter tube with electrostatic focusing and p20 phosphor screen.

SOURCE OPERATING CONDITIONS

1962 ITT

SOURCE PDF

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

1962 ITT

Section 1 · ImageConverterIntensifier

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Cathode-to-anode voltage nominal	**16000 V**	—
Cathode-to-anode voltage maximum	**16500 V**	—
Focus voltage as percent of anode voltage	**13–16 %**	—
Maximum cathode current	**2 uA**	—
Cathode luminous sensitivity	**12–25 uA/lm**	—
Cathode radiant sensitivity at 8000 A	**0.0012–0.0025 uA/uW**	—
Phosphor screen luminous efficiency at 16 kV	**30–55 lm/W**	—
Infrared conversion index at 16 kV	**10**	—
Image magnification	**0.66–0.7 x**	—
Resolving power center	**20 lp/mm**	—

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Average cathode current density	**0.4 uA/cm2**	—
Useful cathode diameter	**0.97 in**	—
Useful phosphor screen diameter	**0.75 in**	—

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

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