

ELECTRONIC TUBE REFERENCE

F4736

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IMAGECONVERTERINTENSIFIER

Electrostatically focused high-resolution magnifying image intensifier with a 25 mm fiber-optic input and 125 mm output window. It enlarges and intensifies weak optical images for direct viewing or recording.

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.

Applicable promoted fields mapped from printed headings; specialized microwave/imaging/electrode data retained densely in TUBE_SECTION_PARAMETER.

Electrostatically focused high-resolution magnifying image intensifier with 25 mm fiberoptic input and 125 mm output window.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · ImageConverterIntensifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Fiber Useful Diameter	25 mm	—
Output Window Useful Diameter	125 mm	—
Photocathode	S-20	—
Image Section Configuration	Triode	—
Phosphor	Modified P-20	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing Voltage Nominal	400 V	—
Anode Voltage	20000 V	CathodeGrounded
Brightness Gain Minimum	4 fL/fc	2870K light
Brightness Gain Typical	6 fL/fc	2870K light
Center Limiting Resolution Minimum	110 lp/mm	—
Center Limiting Resolution Typical	120 lp/mm	—
Off-Axis Limiting Resolution Minimum	100 lp/mm	12mm off-axis
Contrast Minimum	85 percent	—
Contrast Typical	88 percent	—

TUBE TINKER

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

