

Ruggedized 18 mm microchannel-plate image intensifier with trifocal fiber-optic input, S-25 photocathode, and integral high-voltage power supply. Designed for compact high-gain imaging under demanding environmental conditions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.7 V / —	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.

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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 Window Configuration	Trifocal fiberoptic	—
Photocathode	S-25	—
Phosphor	P-20 aluminized	—
Luminous Gain Maximum	15000 ratio	—
Equivalent Background Input	2e-11 lumen/cm2	—
Magnification	1.004 ratio	—
Resolution Maximum	28 lp/mm	—
On Pulse Voltage Minimum	100 V	PulseOperation
On Pulse Voltage Maximum	300 V	PulseOperation
Pulse Repetition Rate Standard	1000 Hz	PulseOperation

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Luminous Gain Minimum	5070 ratio	—
Resolution Minimum	22 lp/mm	—
Cutoff Voltage	-30 V	PulseOperation

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	30 pF	PulseOperation