



PHOTONIS-DEP
ISO 9001 Certified

Specification Image Intensifier Tube,
XX1441

184-2467A0

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Description

The Image Intensifier Assembly, 18 Millimetre Microchannel wafer, shall have a minimum useful photocathode and phosphor screen diameter of 17.5 millimetres (mm). The assembly shall employ an S-25 photocathode and a microchannel electron multiplier plate with proximity focus on the input and output. The assembly shall include the high voltage multiplier and oscillator and shall be encapsulated within a hard surface insulating sleeve or boot and assembled in a hard plastic housing.

Phosphor : P20-AF or P43
Input window : AVG-glass
Output window : Inverting fibre-optic

Construction

The assembly shall be fabricated in accordance with the applicable DEP drawing.

Limiting values

	<u>Minimal</u>	<u>Maximal</u>	<u>Unit</u>
Continuous input Supply voltage	2.0	3.4	V
Reversed Polarity (60 sec)	-3.4	+3.4	V
Photocathode illuminance (short time)		200	lx

Operating conditions and characteristics

Operating Supply voltage : 2.7 V
Ambient temperature : 20 ± 1 °C

When the tube is operated under the conditions mentioned above, unless otherwise specified, the characteristic values which follow are attainable.

	<u>Minimal</u>	<u>Maximal</u>	<u>Unit</u>
Cathode sensitivity at 2850K	270		µA/lm
Radiant sensitivity at 800 nm	20		mA/W
at 850 nm	15		mA/W
Signal to noise ratio (Photocathode illuminance 108 µlx)	12		
Operational life T = 2000 hours (Signal to noise ratio)	9		
Gain at 2.10 ⁻⁵ lx	8000	12000	Cd/m ² /lx

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