



Specification Image Intensifier Tube,
 XX2050



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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). 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
 Input window : Glass
 Output window : Non-inverting fibre-optic

Construction

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

<u>Limiting values</u>	<u>Minimal</u>	<u>Maximal</u>	<u>Unit</u>
Continuous input Supply voltage	2.0	3.8	V
Reversed Polarity (60 sec)	-3.8	+3.8	V
Photocathode illuminance (short time)		200	lx
Storage temperature (8 hours)	-51	+65	°C
Operating temperature (8 hours)	-45	+52	°C

Operating conditions and characteristics

Operating Supply voltage : 3.0 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.

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DEP

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	<u>Minimal</u>	<u>Maximal</u>	<u>Unit</u>
Shock 500g duration $1 \pm 0,2$ msec parallel and perpendicular to the optical axis	6		times
Vibration 10-3500 Hz, 2,5 g in 30 minutes parallel and perpendicular to the optical axis	1		hour

Spots:

Maximum number of spots will be according to the following table:

SPOTS DIAMETER IN MICRONS	ZONE 1	ZONE 2	ZONE 3
	Ø5.6mm	Ø5.6mm – Ø14.7mm	Ø14.7mm – Ø17.5mm
> 230	0	0	0
150 - 230	0	1	1
75 - 150	0	2	2

Chickenwire:

Length in mm	ZONE 1	ZONE 2	ZONE 3
	Ø7.5mm	Ø7.5mm – Ø14.7mm	Ø14.7mm – Ø18mm
> 1.5	0	0	0
1.0 - 1.5	0	0	6
0.5 - 1.0	0	3	12
< 0.5	0	18	disregard

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