

ELECTRONIC TUBE REFERENCE

TH9478

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IMAGECONVERTERINTENSIFIER

Electrostatic or cascaded image-intensifier tube designed for night viewing or specialized ultraviolet/low-light imaging.

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.
Electron-optical image-intensifier structure; specialized photocathode/focus/screen values retained as parameters.

The Thomson-CSF TH9478 is a 34 mm electrostatic-focus tetrode-type light image intensifier for night vision.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1972 Thomson CSF

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

1972 THOMSON CSF

Section 1 · ImageConverterIntensifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum photocathode-to-screen/anode voltage	18 kV	—
Maximum photocathode current	0.1 uA	—
Maximum photocathode-to-g1 voltage	0.4 kV	—
Maximum photocathode-to-g2 voltage	2 kV	—
Maximum photocathode illumination	0.5 lux	—
Typical g1 voltage	0.2 kV	—
Typical g2 voltage	1.35 kV	—
Typical screen voltage	16 kV	—
Photocathode sensitivity	175–225 uA/lm	—
Luminance gain	300–400 cd/m2/lux	—
Central resolution	25–30 lp/mm	—
Peripheral resolution	15–18 lp/mm	—
Central magnification	0.34–0.36 x	—
Distortion maximum	5 %	—

TUBE TINKER

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