

Compact electrostatic image intensifier with S20 photocathode for residual-light night-vision equipment.

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
MAXIMUM PLATE VOLTAGE	18000 V

The THX458 is a compact electrostatic image intensifier with an S20 photocathode, intended for night-vision equipment operating under residual light.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Photocathode-Screen Voltage Maximum	18 kV	—
Photocathode-Focus Electrode Voltage Maximum	2 kV	—
Nominal Photocathode Voltage	-16 kV	—
Photocathode Sensitivity Minimum	150 uA/lm	—
Photocathode Sensitivity Typical	200 uA/lm	—
Central Resolution Typical	60 lp/mm	—
Input Illumination	1 lux	—