

ELECTRONIC TUBE REFERENCE

TH9651

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IMAGECONVERTERINTENSIFIER

High-sensitivity low-light camera pickup tube using intensified vidicon, esicon, super-esicon, or nocticon imaging technology.

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.                                                                                        |
| Composite/image-pickup electron-optical section; camera-specific voltages and performance retained in parameters. |

The Thomson-CSF TH9651 is a super-esicon very-high-sensitivity low-light camera tube with cascaded image intensifier.

## 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 intensifier photocathode negative voltage   | 25 kV           | —                |
| Maximum intensifier-to-Esicon photocathode voltage  | 15 kV           | —                |
| Maximum image-section photocathode negative voltage | 12 kV           | —                |
| Maximum target voltage                              | 40 V            | —                |
| Maximum suppressor grid voltage                     | 30 V            | —                |
| Maximum g1 negative bias magnitude                  | 150 V           | —                |
| Maximum g2 voltage                                  | 400 V           | —                |
| Maximum g3 voltage                                  | 400 V           | —                |
| Maximum g4 voltage                                  | 600 V           | —                |
| Nominal sensitivity                                 | 700 mA/lm       | —                |

| CHARACTERISTIC               |                 |                  |
|------------------------------|-----------------|------------------|
| PARAMETER                    | PUBLISHED VALUE | CONDITION / NOTE |
| Photocathode useful diameter | 25 mm           | —                |
| Image section focusing       | Electrostatic   | —                |
| Scanning focus/deflection    | Electromagnetic | —                |

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