

ELECTRONIC TUBE REFERENCE

TH9654

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
CAMERAPICKUP

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 CameraPickup                                                                                             |
| No fixed ratings recorded.                                                                                        |
| Composite/image-pickup electron-optical section; camera-specific voltages and performance retained in parameters. |

The Thomson-CSF TH9654 is a rugged high-sensitivity esicon camera tube with grid target for night television and nuclear physics.

## 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 · CameraPickup

| OTHER                                   |                 |                  |
|-----------------------------------------|-----------------|------------------|
| PARAMETER                               | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum negative photocathode voltage   | 12000 V         | —                |
| Maximum target/signal electrode voltage | 40 V            | —                |
| Maximum suppressor grid voltage         | 30 V            | —                |
| Maximum g1 negative bias magnitude      | 150 V           | —                |
| Maximum g2 accelerator voltage          | 400 V           | —                |
| Maximum g3 wall voltage                 | 400 V           | —                |
| Maximum g4 field voltage                | 600 V           | —                |
| Heater voltage                          | 5.7–6.9 V       | —                |
| Nominal sensitivity                     | 8000 uA/lm      | —                |

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

## TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,  
and their source documents.

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