ELECTRONIC TUBE REFERENCE

# CL63

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA
**1 SECTION**
CONSTRUCTION
**LIGHTSOURCE**

Ferranti vacuum grid-controlled triode light source using yellow-green phosphor, designed for high-speed stroboscopic photography and motion-analysis work.

## General characteristics

| | | | |
|---|---|---|---|
| **BASE DESIGNATION** | — | **BASE PINS** | — |
| **NOMINAL HEATER** | 6.3 V / 300 mA | **PARALLEL HEATER** | — / — |
| **HEATING** | Indirect | **SERIES OPERATION** | Not specified |
| **CATHODE ARRANGEMENT** | Separate cathodes | **SECTION CONSTRUCTION** | Similar |

## Section ratings

| SECTION1 LightSource | |
|---|---|
| **MAXIMUM PLATE VOLTAGE** | 20000 V |
| **MAXIMUM CATHODE CURRENT** | 0.2 mA |
| *Grid-controlled electron-beam light-source triode.* | |

The Ferranti CL63 is a vacuum grid-controlled triode light source for high-speed stroboscopic work, using a yellow-green phosphor.

SOURCE OPERATING CONDITIONS

# 1963 Ferranti

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

1963 FERRANTI

## Section 1 · LightSource

### CHARACTERISTICS

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Heater Voltage | **6.3 V** | — |
| Heater Current | **300 mA** | — |
| Grid Cutoff Voltage | **-30 V** | LowerMagnitudeLimit; range -30 to -80V |
| Grid Cutoff Voltage | **-80 V** | UpperMagnitudeLimit; range -30 to -80V |
| Maximum Grid Drive | **150 V** | ForMaximumAnodeCurrent |
| Phosphor Type | **C text** | — |
| Fluorescence | **Yellow-green text** | — |
| Decay Time | **6 us** | Approximate |
| Light Output | **24000 cd** | Va=20kV; PeakBeamCurrent=100mA |

### OTHER

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Maximum Anode Voltage | **20000 V** | NormalRating |
| Maximum Pulsed Anode Current | **100 mA** | Pulse |
| Maximum Mean Anode Current | **0.2 mA** | — |

Tube Tinker

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

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker