ELECTRONIC TUBE REFERENCE

CL61

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
LIGHTSOURCE

Ferranti vacuum grid-controlled triode light source using blue 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 CL61 is a vacuum grid-controlled triode light source for high-speed stroboscopic work, using a blue 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	**P text**	—
Fluorescence	**Blue text**	—
Decay Time	**5 us**	Approximate
Light Output	**16000 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.

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