



SPECTRAL LIGHT SOURCES

Light Sources filled with spectrally pure gas. These spectral sources can be used in cases where a known line spectrum is required and the form of construction makes them particularly suitable for uses requiring a compact source or where a close approach to the actual source is necessary. The light output is roughly proportional to the anode current.

PHYSICAL DETAILS.

Base	...	...	...	...	B7G
Max. Overall Length	...	...	...	...	68 mm.
Max. Seated Height	...	...	...	...	61 mm.
Top Cap	...	...	...	...	CT1.

GAS FILLING.

CL55	...	...	...	...	Helium.
CL56	...	...	...	...	Krypton.
CL57	...	...	...	...	Neon.
CL58	...	...	...	...	Xenon.

LIGHT SOURCE.

The source of light is cylindrical with an effective broad-side dimension of 5 × 32 mm. approx. and extends downwards from the top cap.

BASE CONNECTIONS.

Pin 1—Trigger.	Pin 5—Trigger.
Pin 2—Cathode.	Pin 6—No connection.
Pin 3—Heater.	Pin 7—Cathode.
Pin 4—Heater.	Top Cap—Anode.

HEATER.

	CL55	CL56	CL57	CL58	
Heater Voltage	...	6.3	6.3	6.3	volts.
Heater Current	...	1.5	1.5	1.3	1.5 amps.

RATINGS & CHARACTERISTICS.

Type No. Gas	CL55 He.	CL56 Kr.	CL57 Ne.	CL58 Xe.	
*Min. Supply Voltage	500	375	400	375	volts(d.c.).
Max. Mean Anode Current	40	50	40	50	mA.
Min. Cathode Current	See Note * below.				
Max. Peak Cathode Current	90	90	90	90	mA.
Anode/Cathode Volt Drop	95	15	55	12	volts.(Apx)
†Min. Cathode Heating Delay (all types)	—	60	—		sec.

*It is recommended that the trigger electrode is connected to the anode through a 22,000 ohm resistor. Under these conditions the minimum anode current to maintain the discharge is less than 10 mA.

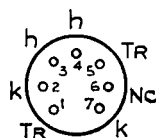
*This is the maximum voltage required to trigger the lamp.
†Before application of the HT supply to anode or trigger.

CL 55

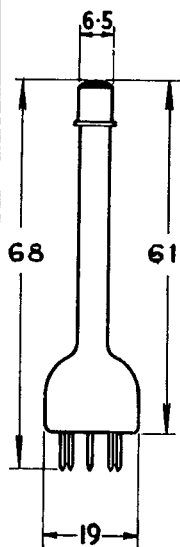
CL 56

CL 57

CL 58



Underside view of base



Dimensions are in millimetres (max.)

