

Neon-filled two-electrode tube having a high order of stability over both long and short periods and very small variations from valve to valve

85A1

PREFERRED OPERATING CONDITION

I (quiescent) 4.5±0.2 mA

CHARACTERISTICS

At preferred operating condition

A.C. resistance	290	Ω
V (burning) variation from valve to valve	83-86	V
Temperature co-efficient of V (burning)	-1.8	mV/°F
Max. percentage variation of V (burning) for current change of 4.3-4.7 mA	0.17	%
Max. percentage variation of V (burning) during life	0.5	%
Max. percentage variation of V (burning) after the first 300 hours of life	0.2	%
Max. short term (100 hours max.) variation of V (burning) after the first 300 hours of life	0.1	%

Equilibrium conditions are normally reached after 3 minutes operation.

Over life, the A.C. resistance will remain sensibly constant but the temperature co-efficient of burning voltage can be expected to decrease slightly.

The noise generated by the valve over a frequency band of 30-10,000 c/s, is of the order of 70 μV which is equivalent to the noise generated by a resistance of approximately 30 MΩ. The noise is evenly distributed over the frequency range.

The tube should not be subjected to shock or continuous vibration.

LIMITING CONDITIONS

V (ignition) max.	125	V
V (burning)	83-87	V
I max.	8	mA
I min.	1	mA
A.C. resistance max.	450	Ω

BASE:

B8G

Anode to pin 2

Cathode to pins 4 and 8

DIMENSIONS:

L=80 mm

D=32 mm



82A1

Neon-filled two-electrode tube having a high order of stability over both long and short periods and very small variations from valve to valve

PREFERRED OPERATING CONDITION

1 (discharge)
4.5±0.2 mA

CHARACTERISTICS

At preferred operating condition

A.C. resistance	290	Ω
V (burning) variation from valve to valve	83-86	V
Temperature co-efficient of V (burning)	-1.8	mV/°F
Max. percentage variation of V (burning) for current change of 4.3-4.7 mA	0.17	%
Max. percentage variation of V (burning) during life	0.3	%
Max. percentage variation of V (burning) after the first 300 hours of life	0.3	%
Max. short term (100 hours max) variation of V (burning) after the first 300 hours of life	0.1	%
Equilibrium conditions are normally reached after 3 minutes operation.		

Over life, the A.C. resistance will remain sensibly constant but the temperature co-efficient of burning voltage can be expected to decrease slightly.

The noise generated by the valve over a frequency band of 30-10,000 c/s. is of the order of 70 μV which is equivalent to the noise generated by a resistance of approximately 30 MΩ. The noise is evenly distributed over the frequency range. The tube should not be subjected to shock or continuous vibration.

LIMITING CONDITIONS

V (ignition) max.	125	V
V (burning) max.	83-87	V
I max.	8	mA
I min.	1	mA
A.C. resistance max.	450	Ω

DIMENSIONS:

L=80 mm
D=32 mm

BASE:

88G

Anode to pin 5

Cathode to pins 4 and 6

