

STABILISING TUBE

150B3

Miniature gas-filled tube with auxiliary ignition electrode (priming anode) and intended for use as a voltage stabiliser.

PRELIMINARY DATA

LIMITING VALUES (absolute ratings)

*Min. voltage necessary for ignition	170	V
Max. burning current	20	mA
Min. burning current	2.0	mA
Max. auxiliary anode current	0.5	mA

CHARACTERISTICS (measured at 10mA)

Max. auxiliary anode ignition voltage	240	V
*Max. ignition voltage	170	V
Burning voltage (variation from tube to tube)	145 to 160	V
Max. burning voltage difference over current range 2 to 20mA	5.0	V

*Auxiliary ignition electrode (priming anode) connected to 240V line through a nominal 270k Ω resistor.

If the auxiliary ignition electrode (priming anode) is not used, it should be connected to the anode through a 68k Ω resistor. Under these conditions a line voltage of at least 240V will be required to strike the tube.

OPERATING NOTES

1. To obtain a good life a reverse current must not be drawn from this tube. This condition is satisfied if any inverse voltage does not exceed 140V.
2. The maximum ignition voltage quoted is the greatest voltage which is necessary to ignite any tube in the presence of an ambient illumination of 5 to 50 foot-candles. A voltage of at least this value must be available if reliability of ignition is to be obtained. In complete darkness there may be some delay in igniting the tube.
4. The noise generated by the tube over a frequency range (50 to 5,000 c/s) and at any constant current (2 to 20mA) is less than 15mV r.m.s.

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