## **VOLTAGE REFERENCE TUBE**

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



This data should be read in conjunction with the GENERAL OPERATIONAL RECOMMENDATIONS—VOLTAGE/STABILISER AND REFERENCE LEVEL TUBES which precede this section of the handbook.		
LIMITING VALUES (absolute ratings)		
Minimum voltage necessary for ignifion	125	۷
Burning current		
Maximum 🤇 🧹	8.0	mΑ
Minimum	1.0	mΑ
Maximum negative anode voltage	75	V
PREFERRED OPERATING CONDITION		
Burning current	4.5±0.2	mA
CHARACTERISTICS		
	to 86	V
Incremental resistance		
Average	290	Ω
Maximum /	450	Ω
Maximum percentage variation of maintaining voltage		
for current change of 4.3 to 4.7mA	0.17	%
*Maximum percentage variation of maintaining voltage		
during life	0.5	%
Maximum, percentage variation of maintaining voltage after the first 300 hours of life	0.2	%
Maximum short term ( $\leq 100$ hours) variation of		
maintaining voltage after the first 300 hours of life	0.1	%
[ *After mitial warming-up period of 3 minutes.		



## NOTES

- 1. Equilibrium conditions are normally reached after 3 minutes' operation.
- 2. Over life, the incremental resistance will remain sensibly constant but the temperature coefficient of the maintaining voltage can be expected to decrease slightly.
- 3. The noise generated by the tube over a frequency band of 30 to 10,000c/s, is of the order of  $70\mu$ V, which is equivalent to the noise generated by a resistance of approximately  $30M\Omega$ . The noise is evenly distributed over the frequency range.
- 4. This tube should not be subjected to shock or continuous vibration.

