VALVE ELECTRONIC

MINISTRY OF SUPPLY - DLRD(A)/RRE(South)

Specification MOS(A)/CV2296	SECURITY			
Issue 2 Dated 28. 4. 55	Specification	Valve		
To be read in conjunction with K1001 & ES.448	UNCLASSIFIED	UNCLASSIFIED		

Indicates a change. TYPE OF VALVE - Gas-filled Tetrode MARKING CATHODE - Cold See K1001/4. ENVELOPE - Glass - Unmetallised PROTOTYPE - NSP 2 SEE KIDELLA IV/DZ BASE M Dinnension RATING Octal (iii) applies BS.448 : B8-0 Note 380 CONNECTIONS Max. Anode DC Voltage A Min. Anode DC Voltage 220 Α Max. Peak Anode Current 250 В Pin Electrode Max. Mean Anode Current 40-100 C 1 No connection Peak Inverse Anode Voltage 350 No connection 2 80-130 Trigger Vol.tage 3 Anode Max. Average Grid Current 10 (mA 4 Screen Grid Max. Flashing Frequency (per sec) 250 5 Control Grid (℃) Ambient Temperature Range -35 to +60 Pin omitted 7 No connection STARTING CHARACTERISTICS (Sec Note E) Cathode Min. Trigger Current (Va = 380V) (vA) DILENSIONS Min. Trigger Current (Va = 200V)(NA) 300 Max Delay Time (usecs) 40 F See K1001/A1/D1. TYPICAL OPERATING CONDITIONS Dimension (mms) Max. Min. 330 DC Supply Voltage 70 Screen Grid Voltage 103 G Trigger Pulse Amplitude 70 В 32 Charging Resistor (ohms) 3000 89 Discharge Capacitor (uF) for operation at (c/s) ż MOUNTING POSITION 30 - 50 45 - 80 2 80 - 150 Any 140 - 250 0.5

NOTES

- A. DC Supply Voltage.
- B. A minimum of 5 amps is necessary for the formation of an arc discharge with a tube drop of approximately 20 volts. If the main gap current is less than 5 amps peak, a glow discharge is likely to form with a 70 volt drop and result in excessive cathode dissipation.
- C. Limitation due to heating of cathode, dependent on peak current and duty cycle.
- D. For triggering between screen and grid.
- E. With control grid 80 130 volts negative with respect to screen grid.
- F. Less than 40 usecs dependent on circuit conditions. With higher energy pulses the delay time can be considerably reduced.
- G. Negative with respect to screen voltage.

		in addition to those appl		its	No.	Note
	Test Conditions	Test	Min.	Max.		
a →	With the valve operating in the test circuit shown in Fig. 1 on Page 4, and switch set to position (a), 330V DC shall be applied across the reservoir condenser.	Anode-Screen Grid Breakdown Voltage (V1) (V)	330	-	100%	
ъ	As for Test (a) but switch in position (b); 330V DC shall be applied across the reservoir condenser. The screen grid voltage shall be increased until the valve fires.	Screen Grid Starting Potential Screen grid breakdown potential measured just before conduction atarts. (V)	80	130	100%	
o	The valve shall be operated in the test circuit shown in Fig. 2 on Page 4.	Life (hrs)	300	-	TA	

