MINISTRY OF SUPPLY - DIRD(A)/RRE(South) VALVE ELECTRONIC **CV1833**

Specification MOS(A)CV1833 Issue 2 Dated 27.9.54 To be read in conjunction with K1001	SECURITY Specification: UNCLASSIFIED Valve: UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Voltage Regulator, Receiving CATHODE - Cold ENVELOPE - Glass - Unmetallised PROTOTYPE - OB2 RETMA DESIGNATION - OB2	**MARKING** See K1001/4 Additional marking - OB2 (See Note A) **BASE** B7G

RATING

			Note
→ Max Striking Voltage	(V)	127	
Approx. Operating Voltage	(V)	108	
Min. Operating Current	(mA)	5	
Max. Operating Current	(mA)	30	
Max. Altitude for Effective Operation	(ft)	10000	

CONNECTIONS

Pin	Electrode
1	Anode
2	Cathode
3	Internally connected
4	Cathode
5	Anode
6	Internally connected
7	Cathode

DIMENSIONS

See K1001/A1/D4

Dimension (mm)	Min.	Max.
A	60.3	66.7
B	-	19.0

MOUNTING POSITION

Any

NOTE

A. In addition to the requirements of K1001/4, the RETMA designation shall also be clearly and indelibly marked on the valve.

To be performed in addition to those applicable in K1001

	Test Conditions		Test	Limits		No. Tested	Note
	Va (V)	Ia (mA)		Min.	Max.		
a	Increased from zero until the current flows.	-	**Striking Voltage** (V)	-	127	100%	1,2 & 3
b	As for Test (a)	-	**Striking Voltage** (V)	-	210	TA	2& 4
c	Adjust	5	Va (V)	105	-	100%	2
d	Adjust	30	Va (V)	-	112	100%	2
e	Adjust	Changed from 5-30 mA	Regulation (V)	-	3.5	100%	
f	50	-	Leakage Current (μA)	-	20	100% or S	2
g	The valve shall be tested for freedom from oscillation and noise during operation. For this purpose a calibrated amplifier detector having a level response within ± 2 db of its response at 400 cps over the frequency range 50-5000 cps, shall be connected between anode and cathode. The cathode current shall be varied slowly within the range 30-5 mA, and at no point shall the RMS noise input voltage to the amplifier exceed 5 mV AC. In performing the test, the valve shall be operated from a well-filtered variable DC supply.		Noise	-	-	100%	

NOTES

1. This test shall be performed at least 24 hours after the valve has been sealed.
2. Minimum anode load resistance = 1000 ohms.
3. The test shall be conducted with the valve exposed to a light intensity of 5-50 ft. candles.
4. The test shall be conducted in total darkness after the valves have been held in darkness for 24 hours.