

VALVE ELECTRONIC

CV 1832

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

Specification MOS(A)/CV1832 Issue 2 Dated 24.9.54 To be read in conjunction with K1001	<div style="text-align: center;"><u>SECURITY</u></div> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">Specification UNCLASSIFIED</div> <div style="text-align: center;">Valve UNCLASSIFIED</div> </div>
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—————> Indicates a change

TYPE OF VALVE - Voltage Regulator, Receiving			<u>MARKING</u> See K1001/4 Additional Marking - OA2 (See Note A)		
CATHODE - Cold					
ENVELOPE - Glass - Unmetallised					
PROTOTYPE - OA2			<u>BASE</u> B7G		
RETMA DESIGNATION - OA2					
<u>RATING</u>			<u>CONNECTIONS</u>		
			Note	Pin	Electrode
Max. Striking Voltage	(V)	180		1	Anode
Approx. Operating Voltage	(V)	150		2	Cathode
Min. Operating Current	(mA)	5		3	Internally connected
Max. Operating Current	(mA)	30		4	Cathode
Max. Altitude for Effective Operation	(ft)	10,000		5	Anode
				6	Internally connected
				7	Cathode
			<u>DIMENSIONS</u> See K1001/A1/D4		
			Dimension (mm)		
			Min. Max.		
			A 60.3 66.7		
			B - 19.0		
			<u>MOUNTING POSITION</u> Any		
<u>NOTES</u>					
A. In addition to the requirements of K1001/4, the RETMA designation shall also be clearly and indelibly marked on the valve.					

TESTS

To be performed in addition to those applicable in K1001

Test Conditions			Test	Limits		No. Tested	Note
				Min.	Max.		
	Va (V)	Ia (mA)					
a	Increased from zero until the current flows.	-	Striking Voltage (V)	-	180	100%	1, 2 & 3
b	As for Test (a)	-	Striking Voltage (V)	-	225	TA	2 & 4
c	Adjust	5	Va (V)	142	-	100%	2
d	Adjust	30	Va (V)	-	165	100%	2
e	Adjust	Changed from 5-30 mA	Regulation (V)	-	6	100%	
f	50	-	Leakage Current (μ A)	-	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 steadily, 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 = 1,000 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.