

MINISTRY OF SUPPLY (S.R.D.E.)

Specification MOS/CVX2223/Issue 2 Dated:- 18.6.52. To be read in conjunction with K1001		SECURITY	
		Specification	Valve
		Unclassified	Unclassified
<u>TYPE OF VALVE:-</u> Cold Cathode Gas Tube Decade Counter <u>ENVELOPE:-</u> Glass, unmetallised <u>PROTOTYPE:-</u> G1Q/241/E		<u>MARKING</u> As K1001/4 with the title CVX2223 omitting the Type Approval letter.	
		<u>BASE</u> Duodecal	
<u>RATING</u> <u>D.C. CHARACTERISTICS (NOMINAL)</u>		Pin	Electrode
		1	Shield
		2	Cathode 0
		3	" 9
		4	" 8
		5	" 7
		6	" 6
		7	" 5
		8	" 4
		9	" 3
		10	" 2
		11	" 1
		12	Transfer
		Bottom	Anode
		Cap	
		<u>DIMENSIONS</u> See K1001/A1/D1	
		Dimensions	Min. Max.
		A mm.	79.4
		B mm.	41.0
		C mm.	43.7
		L mm.	50.8
		Bottom Cap: Length 7.1 (Nom) Dia. 6.4	
Note Anode-Cathode Breakdown Voltage (V) 270 Anode-Transfer Electrode Breakdown Voltage (V) 270 Anode-Cathode Maintaining Voltage (V) 165 Max. Cathode Current (mA) 5.5 Min. Operating Cathode Current (mA) 3.0			

TESTS

To be performed in addition to those applicable in K1004.

	Test Conditions	Limits	No. Tested												
	<p>Each valve shall be operated under the conditions specified below in a test set to VLS6286.</p> <p>The VLS6286 Test Set shall be adjusted to the following limiting values:-</p> <table> <tr> <td>Pulse Amplitude</td> <td>135 volts</td> </tr> <tr> <td>Pulse Width</td> <td>16 μs</td> </tr> <tr> <td>C.P. bias at 300 V. H.T.</td> <td>105 volts</td> </tr> <tr> <td>Transfer bias at 300 V. H.T.</td> <td>66 volts</td> </tr> <tr> <td>Anode Load</td> <td>27 K.ohms</td> </tr> <tr> <td>Cathode Load</td> <td>15 K.ohms</td> </tr> </table>	Pulse Amplitude	135 volts	Pulse Width	16 μ s	C.P. bias at 300 V. H.T.	105 volts	Transfer bias at 300 V. H.T.	66 volts	Anode Load	27 K.ohms	Cathode Load	15 K.ohms		
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Pulse Width	16 μ s														
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Transfer bias at 300 V. H.T.	66 volts														
Anode Load	27 K.ohms														
Cathode Load	15 K.ohms														
a	Adjust the anode supply voltage to 315 volts	The valve shall complete the test cycle without failure	100%												
b	Adjust the anode supply voltage to 345 volts	The valve shall complete the test cycle without failure	100%												

DIMENSIONS ARE
MAXIMUM

