

MINISTRY OF SUPPLY D.L.R.D. (A)/R.A.E.

VALVE ELECTRONIC

CV 2748

Specification MOSA/CV. 2748 Issue 1 Dated 13.2.53. To be read in conjunction with K.1001	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification UNCLASSIFIED</td><td>Valve UNCLASSIFIED</td></tr> </table>	SECURITY		Specification UNCLASSIFIED	Valve UNCLASSIFIED
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→ Indicates a change

TYPE OF VALVE - Full Wave Rectifier			<u>MARKING</u>		
CATHODE - Indirectly Heated			See K.1001/4		
ENVELOPE - Glass unmetallised					
PROTOTYPE - 5Z4GT					
<u>RATING</u>			<u>BASE</u> See K1001/AV/D2 m Dimension 5 Pin Octal (V) applies		
			<u>CONNECTIONS</u>		
			<u>Note</u>		
Heater Voltage (V) 5.0			Pin	Electrode	
Heater Current (A) 2.0			1	No Connection	
Max. Peak Inverse Voltage (kV) 1.4			2	Heater	
Max. Peak Anode Current (each Anode) (mA) 375			3	Pin Omitted	
			4	Anode No. 2	
<u>Condenser Input Filter</u>			5	Pin Omitted	
Max. R.M.S. Voltage (each Anode) (V) 350			6	Anode No. 1	
Min. Supply Impedance (each Anode) (Ohms) 30			7	Pin Omitted	
Max. Direct Current Output (mA) 125			8	Heater and Cathode	
Max. Reservoir Condenser (uF) 32					
<u>Choke Input Filter</u>			<u>DIMENSIONS</u>		
Max. R.M.S. Voltage (each Anode) (V) 500			See K.1001/A1/D1		
Max. Direct Current Output (mA) 125			Dimension	Min.	Max.
Min. Choke Inductance (H) 5			A	-	5/16"
			B	-	15/16"
			L	-	23/4"

To be performed in addition to those applicable in K.1001

Test Conditions				Test	Limits		No. Tested	Note
					Min.	Max.		
a	V _h	V _a	I _a (mA)	I _h	-	2.2	100% or 8	2
	5.0	-	-					
b	5.0	-	150	V _a	19	28	100%	2
c	5.0	Input 400-0-400 R.M.S. Frequency 50 c/s. Load Resistor 3,300 ohms Reservoir Condenser 4 μ F.		Output Current (mA)	133	-	100%	1,2,3.

NOTES

1. Measured in a full wave circuit with the total supply impedance (including transformer) initially adjusted so that a valve giving 125 mA for a voltage drop of 20 per anode will give an output of 140 mA. The anode voltage shall be measured direct from each anode to earth by a normal rectifier meter.
2. The valve shall have operated continuously for a minimum period of two minutes before test is recorded.
3. During this test the valve shall not exhibit sustained sparking or flashing over when tapped.
4. Tests shall be applied to each anode.