

Specification No. MOS/CV281/3		SECURITY		
Dated : 17.9.52		Specification	Valve	
To be read in conjunction with K1001		Unclassified	Unclassified	
→ Indicates a change				
TYPE OF VALVE : Triode Hexode CATHODE : Indirectly Heated ENVELOPE : Glass-metallised COMMERCIAL PROTOTYPE : M.O.V. E1416		MARKING As in K1001/4		
RATING		Note	BASE International Octal	
Heater voltage (V)	6.3	Pin	Electrode	
Heater current (A)	0.3		1	Metallising
Max. hexode anode voltage (V)	250		2	Heater
Max. screen voltage (V)	100		3	Hexode anode
Max. triode anode voltage (V)	100		4	Screen grid
Optimum oscillator voltage (peak V)	15		5	Triode control grid and hexode G3
Conversion conductance (μA/V)	620		6	Triode anode
Total cathode current (mA)	10		7	Heater
			8	Cathode
			TC	Hexode control grid
CAPACITANCES (pF)			TOP CAP See K1001/AI/D5.2	
Hexode Cag (mean)	0.14		DIMENSIONS See K1001/AI/D1	
" Cae	11.5	Dimensions	Min.	Max.
" Cge	4.5	A mms.	-	114
Triode Cge	8.0	B mms.	-	39

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions						Test	Limits		No. Tested
								Min.	Max.	
a	See K1001/AIII						Capacitances (pF)	-	0.25	6 per week
	Links to H.P.	Links to L.P.	Links to E.	(i) Hexode Cag						
	3	TC1	1,2,4,5, 6,7,8,9, 10, TC2.							
	3	1,2,4,5, 6,7,8.	9,10,TC1, TC2.							
	TC1	1,2,4,5, 6,7,8.	3,9,10, TC2							
	5	1,2,3,4, 7,8,TC1.	6,9,10, TC2							
				(ii) Hexode Cae		10.0	13.0			
				(iii) Hexode Cge		3.75	5.25			
				(iv) Triode Cge		7.0	9.0			
b	Vh	Va	Vg2/4	Vg1	Vao	Vgo	Ih (A)	0.27	0.33	100% or S
	6.3	-	-	-	-	-				
c	6.3	250	100	-25	0	10V peak AC	Hexode Ia (μ A) (Note 1)	3	700	100%
d	6.3	250	100	-3	100	As in (c)	Hexode Rev. Ig (μ A) (Note 1)	-	1.0	100%
e	6.3	250	100	-3	100	As in (c)	Conversion (μ A/V) conductance (Note 1)	340	800	100%
f	6.3	250	100	-3	100	As in (c)	Total Ic (mA) (Note 1)	7.0	17.0	100%
g	6.0		The triode section of the valve is to be tested in the approved circuit, conditions as in Spec. No. T.G.B.109. The valve must oscillate and produce a minimum positive grid current of 50 μ A.							100%

NOTE 1. Grid leak - 50,000 Ω

CV281/3/2.