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

VALVE ELECTRONIC **CV281**

Specification No. MOS/CV281/3 Dated : 17.9.52 To be read in conjunction with K1001	SECURITY Specification: Unclassified Valve: 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
Heater voltage (V)	6.3	
Heater current (A)	0.3	
Max. hexode anode voltage (V)	250	
Max. screen voltage (V)	100	
Max. triode anode voltage (V)	100	
Optimum oscillator voltage (peak V)	15	
Conversion conductance (μA/V)	620	
Total cathode current (mA)	10	

CAPACITANCES (pF)

Hexode Cag (mean)	0.14
" Cae	11.5
" Cge	4.5
Triode Cge	8.0

BASE
International Octal

Pin	Electrode
1	Metallising
2	Heater
3	Hexode anode
4	Screen grid (G2/4)
5	Triode control grid and hexode G3
6	Triode anode
7	Heater
8	Cathode
TC	Hexode control grid

TOP CAP
See K1001/AI/D5.2

DIMENSIONS
See K1001/AI/D1

Dimensions	Min.	Max.
A mms.	-	114
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)			
	Links to H.P.		Links to L.P.		Links to E.					
	3		TC1		1,2,4,5, 6,7,8,9, 10, TC2.		(i) Hexode Cag	-	0.25	6 per week
	3		1,2,4,5, 6,7,8.		9,10,TC1, TC2.		(ii) Hexode Cae	10.0	13.0	
	TC1		1,2,4,5, 6,7,8.		3,9,10, TC2		(iii) Hexode Cge	3.75	5.25	
	5		1,2,3,4, 7,8,TC1.		6,9,10, TC2		(iv) Triode Cge	7.0	9.0	
	Vh	Va	Vg2/4	Vg1	Vao	Vgo				100% or S
b	6.3	-	-	-	-	-	Ih (A)	0.27	0.33	
c	6.3	250	100	-25	0	10V peak AC	Hexode Ia (μA) (Note 1)	3	700	100%
d	6.3	250	100	-3	100	As in (c)	Hexode Rev. Ig (μA) (Note 1)	-	1.0	100%
e	6.3	250	100	-3	100	As in (c)	Conversion (μA/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 50μA.							100%

NOTE 1. Grid leak - 50,000Ω