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

Specification MOS/CV 2103/Issue 3	SECURITY			
Dated: - 9.8.51.	<u>Specification</u>	<u>Valve</u>		
To be read in conjunction with K1001	Restricted	Unclassified		

## → indicates a change

TYPE OF VALVE: Sub-miniate  H. F. Pento  CATHODE: Directly he ENVELOPE: Glass-unmer PROTOTYPE: VX8020	MARKING CV 2103 Date Code & Factory Identification Code						
RATING		Note					
Filament voltage (V) Filament current (mA)	1.25		CONNECTIONS				
Max. anode voltage (V)	25 100		Pin	Electrode			
Max. screen voltage (V) Mutual Conductance (mA/V) Anode impedance (MQ) Anode current (mA) Screen current (mA) Vg1 for 10µA/V (V)	100 0.95 0.65 1.9 0.55 -16	A A A B	123456	Internal Connection G1 No Connection -F (Sc) +F (G3) No Connection		++++	
CAPACITANCES (pF) Cag (max.) Cae Cge	0.01 5.0 2.9	000	7 A 8 G2  DIMENSIONS See drawing page 3.				
			Di	mension	Min.	Max.	
			A B	m.m. m.m.		41.2 10 <b>.16</b>	-

## NOTES

- A. Measured at Va = Vg2 = 70V, Vg1 = 0VB. Measured at Va = Vg2 = 70V.
- C. Measured with valve shielded.

A sharp bend must not be made in any valve lead closer than 1.5 mm. to the glass seal and soldered joints in the leads must not be made closer than 5.0 mm. to the seal.

TESTS
To be performed in addition to those applicable in K1001

		Tec	t Cond	13+30			Test			Li	nits	No.		]
		160	o Cara	11010				168		Min.	Max.	Tested	Note	İ
		Se	See K1001/AIII					Capacitances						
,			Links to Links to Links to				(Shie	lde	d)(pF)					
	a	H.P. L.P. B. 7 2 1,3,4,5, 6,8 7 1,3,4,5, 2 6,8 2 1,3,4,5, 7 6,8		3,4,5,	(i) Cag			-	0.01	T.A.	1			
							(ii)	Ca	8	4-5	5•5	6 per	1	-
				(iii)	Cg	9	2.4	3-4	week	1	4-			
		Vf	Va	Vg2		Vg1								Ì
	Ъ	1.25	-	_		-	If		(mA)	22	28	100%		
	С	1.25	70	70		0	Ia		(mA)	1.4	2.4	100%		
	đ	1.25	70	70	)	0	Ig2		(mA)	0.4	0.7	100%		<b>—</b>
	8	1.25	70	70	)	-1.5	Rev.I	gl	(µ <b>&amp;</b> )	-	0.5	100%		
	f	1.25	70	70	)	0	8m		(mA/V)	0.7	1.2	100%		<b></b>
<b>→</b>	g	1.1	70	70	)	0	8au		(m <b>A/V</b> )	0.56	-	100%		4
	h	1.25	70	70	)	-13.5	Ia(ta	<u>il)</u>	(µA)	2	60	100%	2	<b>-</b>

## NOTES

- 1. Capacities measured with shield roundvalve. All should be measured at R.F.
- 2. 1 Megohm protective resistance in series

