CV 2243

VALVE ELECTRONIC

MINISTRY OF SUPPLY (S.R.D.E.) (VX6108)

Specification: MOS/CV2243 Issue 4
Date: 19.10.54.
To be read in conjunction with K1001

SECURITY
Specification Unclassified
Valve Unclassified

← Indicates a change

TYPE OF VALVE: Screened Pentode
CATHODE: Indirectly heated
ENVELOPE: Glass, unmetallised
PROTOTYPE: PSG 8
Characteristics similar to 6F14

MARKING
See K1001/4.

RATING		Note
Heater Voltage (V)	6.3	
Heater Current (mA)	350	
Max. Anode Voltage (V)	300	A
Max. Screen Voltage (V)	300	A
Max. Anode Dissipation (W)	4.5	A
Max. Screen Dissipation (W)	1.2	A
Mutual Conductance (mA/V)	8.4	B
Max. V_{hk} (V)	150	A
Max. I_k (mA)	35	A
Va Max. for Ia = 0 (V)	550	A
→ Vg2 Max. for Ia = 0 (V)	450	A
Amplification Factor(g1-g2)	33	
Input Resistance at 50 Mc/s (ohms)	2800	C

BASE
B9A

CONNECTIONS

Pin	Electrode
1	s
2	g1
3	k
4	h
5	h
6	s
7	a
8	g2
9	g3

DIMENSIONS
See K1001/A1/D4

CAPACITANCES (pF)	
ca, g1 (max)	0.01
c in	8.7
c out	4.5

Dimension	Min.	Max.
A mm.		57.0
B mm.		22.2
F mm.	37.5	42.0
L mm.		49.0

NOTES

A. All limiting ratings are absolute unless otherwise stated.
B. Measured at Va = 200 Vg2 = 115 Vg3 = 0 Vg1 = -2
C. At Va = Vg2 = 150 Ia = 24 mA

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(VX6108) TESTS

To be performed in addition to those applicable in K1001

	Test Condition						Test	Limits Min.	Limits Max.	No. Tested	Note
See K1001/A III							Capacitances (pF)				
	Links to H.P.		Links to L.P.		Links to E.						
a	2		7		1,3,4,5, 6,8,9		(i) ca,g1		0.01	T.A.	
	2		1,3,4,5, 6,8,9		7		(ii) c in	7.1	10.3	6 per week	
	7		1,3,4,5, 6,8,9		2		(iii) c out	3.7	5.3		
	Vh	Va	Vg2	Vg3	Vg1	Ia					
b	6.3	0	0	0	0		Ih (mA)	315	385	100%	
c	6.3	200	115	0	0		Ia (mA)	25.6	42.0	100%	
d	6.3	200	115	0	0		Ig2 (mA)	5.5	13.0	100% or S	
e	6.3	200	115	0	-2		Rev.Ig (μA)	-	0.75	100%	
f	6.3	200	115	0	-2		gm (mA/V)	6.3	10.5	100%	
g	6.3	200	115	0	Ad-just	100 μA	Vg1 (V)	-	-9.5	100%	
h	6.3	200	115	0	Ad-just	10 μA	Vg1 (V)	-	-12.0	20 per week	
j	6.3	200	115	0	-2		Vg2 (V) change	25	41	20 per week	1

NOTE

1. Reduce Vg1 by 1 volt and reduce Vg2 to keep Ia constant.