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

VALVE ELECTRONIC

CV136

Specification MOSA/CV136 Issue 6 Dated 4.12.56 To be read in conjunction with B.S.448, B.S.1409 and K.1001.	SECURITY Specification: UNCLASSIFIED Valve: UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Miniature H.F. Pentode

CATHODE - Indirectly heated

ENVELOPE - Glass

MARKING
See K.1001/4

BASE
B.S.448/B7G.

RATING (All limiting values are absolute)			Note
Heater Voltage	(V)	6.3	
Heater Current	(A)	0.2	
Max. Operating Anode Voltage	(V)	300	
Max. Operating Screen Voltage	(V)	275	
Max. Anode Dissipation	(W)	4.75	A
Max. Screen Dissipation	(W)	0.8	
Max. Operating Frequency	(Mc/s)	100	C
Max. Heater-Cathode Voltage	(V)	150	E
Max. Grid-Screen Voltage (dc)	(V)	300	
Max. Grid-Cathode Voltage (dc)	(V)	100	
Max. Mean Grid Current	(mA)	3.3	
Mutual Conductance	(mA/V)	2.6	B
Inner Amplification Factor		12.0	

CONNECTIONS

Pin	Electrode	
1	Grid	g1
2	Cathode, Supp.	k+g3
3	Heater	h
4	Heater	h
5	Anode	a
6	No connection	NL
7	Screen	g2

DIMENSIONS
See B.S.448/B.7G/2.1
Size Ref. No. 2'

Dimensions	Min.	Max.
A Seated height	-	47.5
C Diameter	16.0	19.0
D Overall length	-	54.5

→ CAPACITANCES (pF)

C in (nom.)		4.25	D
C out (nom.)		6.5	D
Ca,g (max.)		0.3	D

MOUNTING POSITION
Any

NOTES

A. With adequate free air circulation. Valve not screened.

B. Va = Vg2 = 250V, Ia = 16 mA, Vg = -13.5 .

C. Max. Frequency for 100% ratings.

→ D. Measured with screen.

E. Cathode positive or negative to heater.

Z.13591.R.

CV136

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

	Test Conditions				Test	Limits Min.	Limits Max.	No. Tested	Note
a	Measured on a 1 Mc/s bridge with the valve mounted in a fully shielded holder. Valve screened.				Capacitances (pF)				
					C im	3.5	5.0	6 per week	
					C out	5.8	7.2		
					Ca,g	-	0.3	T.A.	
	Vh	Va	Vg2	Ia					
b	6.3	0	0	0	Heater Current (A)	0.18	0.22	100% or S	
c	6.5	See K.1001/5.3 except that the test voltage shall be applied with cathode both positive and negative to heater.			Heater-Cathode Leakage Current (μA)	-	40	100%	
d	6.3	250	250	16 mA	Vg1 (V)	-11.0	-16.0	100%	
e	6.3	250	250	16 mA	Ig2 (mA)	1.5	3.0	100% or S	
f	6.3	250	250	16 mA	Reverse Ig1 (μA)	-	1.0	100%	
g	6.3	250	250	16 mA	gm (mA/V)	2.1	3.1	100%	
h	6.3	250	250	50 μA	Vg1 (V)	-	-50	100%	
j	6.3	250	-	16 mA	Inner μ	10.0	14.0	20 per week	
		Vg1 reduced by 1V. Reduce Vg2 to maintain Ia = 16 mA.							
k	6.3	75V peak applied between cathode and all other electrodes strapped. See K.1001/AV.			Peak current (mA)	150	-	100%	