

Specification MOSA/CV137 Issue 6 Dated 19.4.55 To be read in conjunction with BS.448, BS.1409 & K1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

—————> Indicates a change

TYPE OF VALVE - Minature Diode Triode			<u>MARKING</u>		
CATHODE - Indirectly heated			See K.1001/4		
ENVELOPE - Glass			<u>BASE</u>		
PROTOTYPE - EAC91			BS.448/B7G		
<u>RATING</u>			<u>CONNECTIONS</u>		
			Pin	Electrode	
			1	ad	
			2	kd	
			3	h	
			4	h	
			5	kt	
			6	gt	
			7	at	
			<u>DIMENSIONS</u>		
			See BS.448/B7G/2.1 Size Ref. No.2		
			Dimensions (mm)	Min.	Max.
			A seated height	-	47.5
			C diameter	16.0	19.0
			D overall height	-	54.5
			<u>MOUNTING POSITION</u>		
			Any		
<u>NOTES</u>					
A. Absolute maximum values.					
B. At $V_a = 200$, $V_g = -3.0$ ($I_a = 8$ mA)					
C. To be measured with a close fitting metal screen.					

TESTS

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

	Test Conditions				Test	Limits		No. Tested	Note	
						Min.	Max.			
	See K.1001/A.III Measured at a frequency of 0.5 Mc/s or some other agreed high frequency				CAFACITANCES (pF)					
	Links to H.P.	Links to L.P.	Links to E							
	6	3,4,5, 8,9	1,2,7,10 T.C.1,T.C.2		C in	1.6	2.1	6 per week	1	
	7	3,4,5, 8,9	1,2,6,10, T.C.1,T.C.2		C out	0.9	1.40			
a	6	7	1,2,3,4, 5,8,9,10, T.C.1,T.C.2		Cat,g	1.5	1.9			
	2	1	3,4,5,6, 7,8,9,10 T.C.1,T.C.2		Cad, kd	1.2	2.2			
	1	7	2,3,4,5, 6,8,9,10, T.C.1,T.C.2		Cat, ad	-	0.20			TA
	3,4	1	2,5,6,7, 8,9,10 T.C.1,T.C.2		Cad,h	-	1.0			6 per week
	Vh	Vad	Vg	Vat						
b	6.3	0	0	0	Ih (A)	0.27	0.33	100% or S		
c	6.3	-100	0	0	Reverse Iad (μA)	-	2.0	100%		
d	6.3	-0.2	0	0	Iad (μA)	5.0	-	100%		
e	6.3	Vhk = ± 100			Ih,k (μA)	-	40.0	100%	4	
f	6.3	-1.0	0	0	Iad (μA)	-	5.0	100%		
g	6.3	10	0	0	Iad (mA)	34.0	-	100%		
h	6.3	0	0	200	Iat (mA)	12.0	24.0	100%	2	
j	6.3	0	-4	200	Iat (mA)	3.0	8.0	100%		
k	6.3	0	-10	200	Iat (mA)	-	0.5	100%		
m	6.3	0	-1,5	200	Reverse Ig (μA)	-	0.5	100%		
n	6.3	-	15 A.C.	15A.C.	Ikt (mA)	15.0	-	100%	2&3	

NOTES

See Page 3

NOTES

1. Measured with a close fitting metal screen
2. Conditions maintained only for sufficient time to take necessary reading.
3. 15V R.M.S 50 c/s, applied to anode and grid connected together
4. See K.1001/53 except that the test voltages shall be applied in each polarity. The cathodes shall be connected together.

DATA SHEET

Valve Electronic Type CV 137

TYPICAL OPERATING CONDITIONS

Triode Section

Anode Voltage	_____ 200 _____	Volts
Anode Current	_____ 7.5 _____	mA
Grid (G1) Voltage	_____ -2.8 _____	Volts
Mutual Conductance	_____ 2.8 _____	mA/V
Amplification Factor	_____ 36 _____	-
Anode Impedance	_____ 12,800 _____	Ohms

J.H.F. Frequency Changer - Typical Details

(See attached circuit diagram)

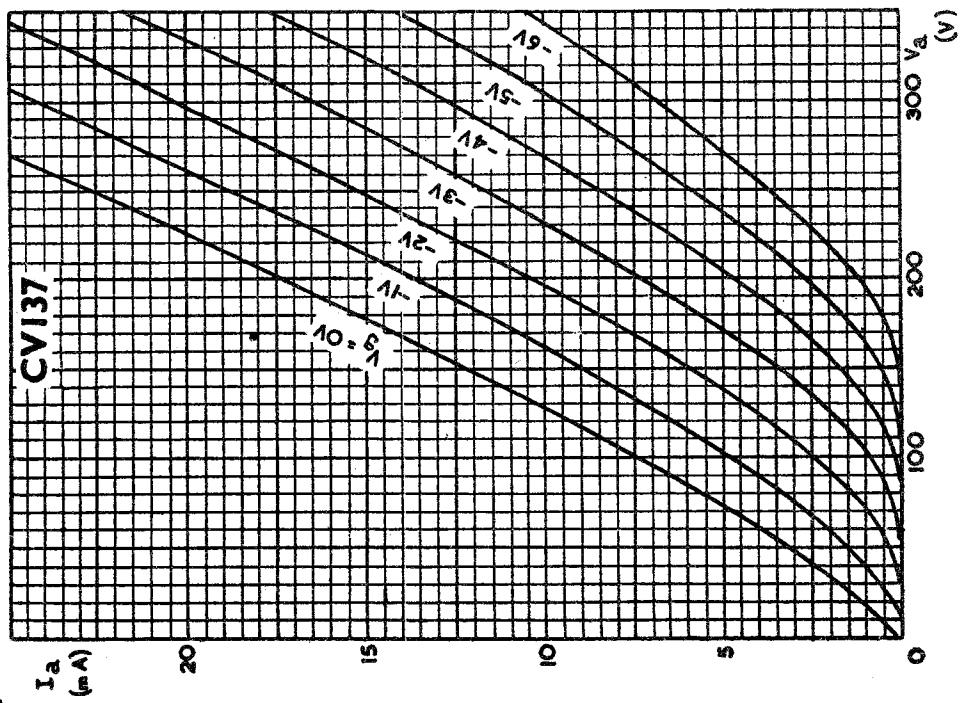
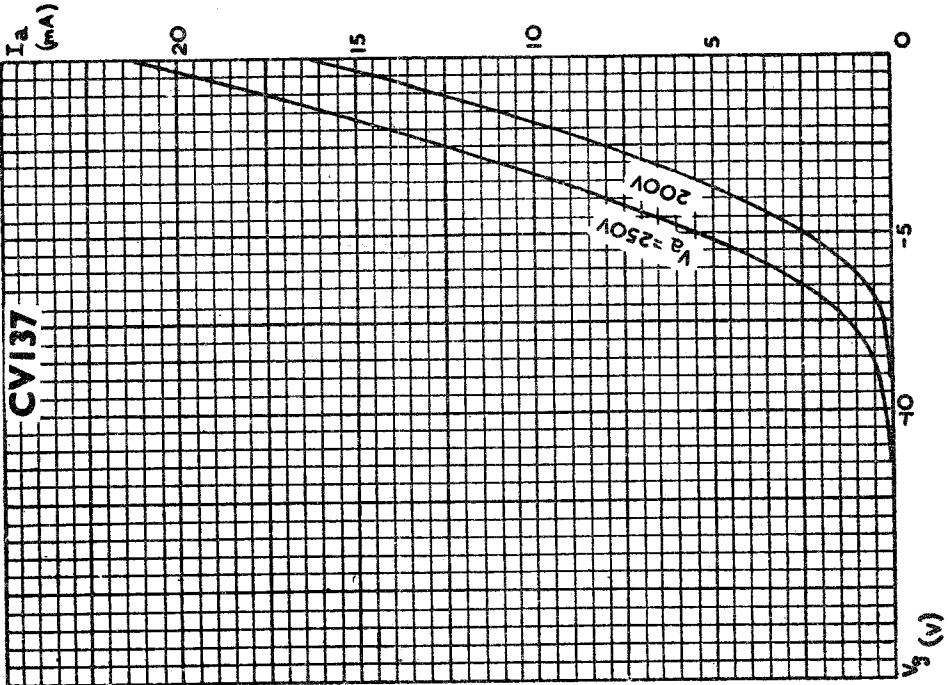
<u>Approx. Coil Data</u>	-	L1 - Turns	_____ 3½ _____
		Coil diameter	_____ 10 mm _____
		Coil length	_____ 7 mm _____
		Wire diameter	_____ 1 mm _____

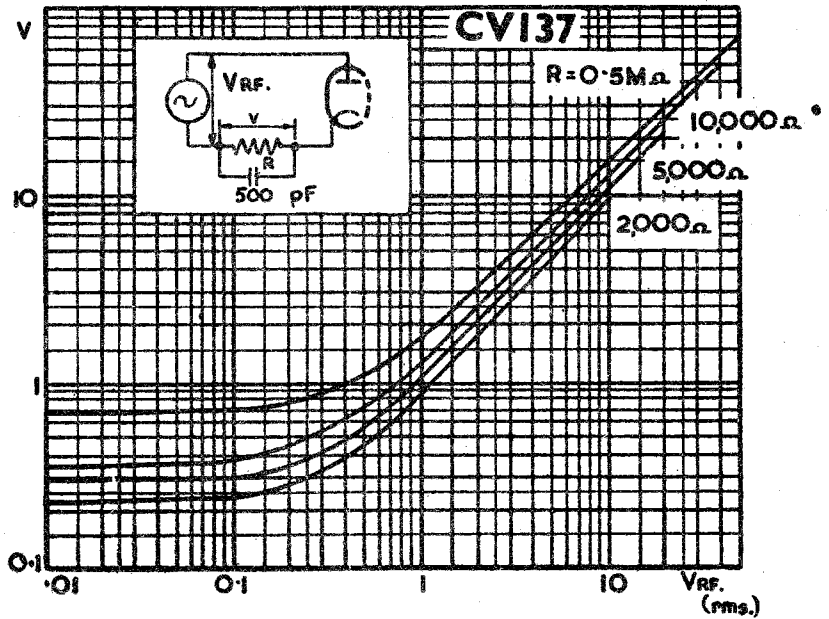
L2 - Dust cored, tunable to
intermediate frequency

L3) Dependent upon

L4) signal frequency

Mounting position - Any.





UHF FREQUENCY CHANGER CIRCUIT FOR USE UP TO 300Mc/s.

INTERMEDIATE FREQUENCY 12 TO 45 Mc/s.

