

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

Specification MOSA/CV137 Issue 6 Dated 19.4.55 To be read in conjunction with BS.448, BS.1409 & K1001	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification UNCLASSIFIED</td><td>Valve UNCLASSIFIED</td></tr> </table>	SECURITY		Specification UNCLASSIFIED	Valve UNCLASSIFIED
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—————→ Indicates a change

TYPE OF VALVE - Minature Diode Triode				<u>MARKING</u> See K.1001/4		
CATHODE - Indirectly heated						
ENVELOPE - Glass						
PROTOTYPE - EAC91						
<u>RATING</u>				<u>BASE</u> BS.448/B7G		
				<u>CONNECTIONS</u>		

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					CAPACITANCES (pF)				6 per week	1						
											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
											7	3,4,5, 8,9	1,2,6,10, T.C.1,T.C.2	C out	0.9	1.40
											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										
b	Vh	Vad	Vg	Vat	Ih	(A)	0.27	0.33	100% or S							
	6.3	0	0	0												
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

TESTS (Continued)

CVI37

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

U.H.F. Frequency Changer - Typical Details

(See attached circuit diagram)

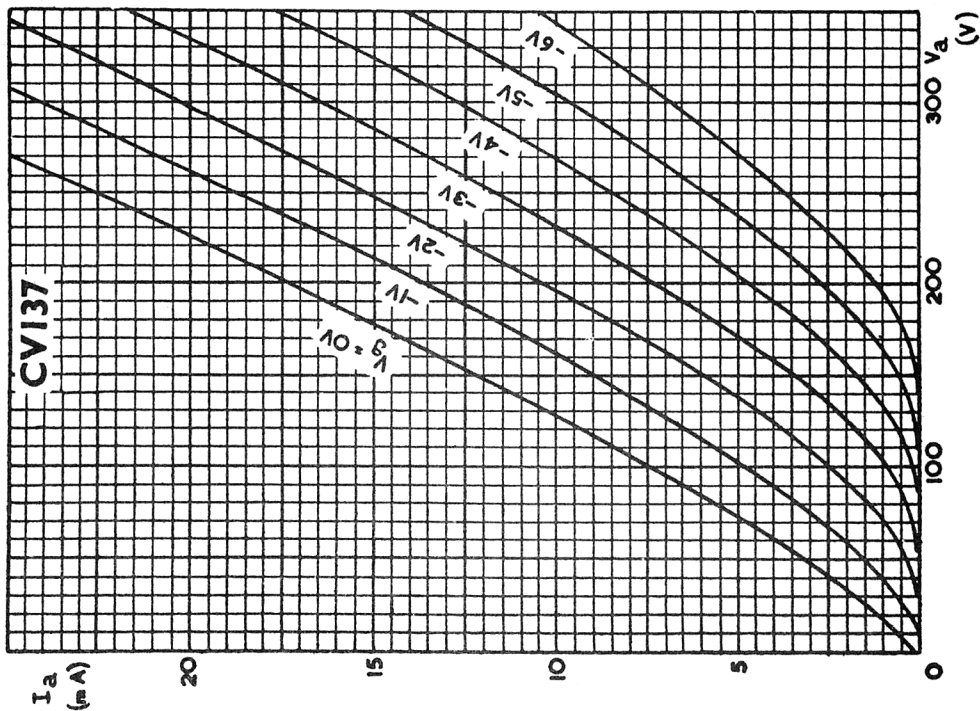
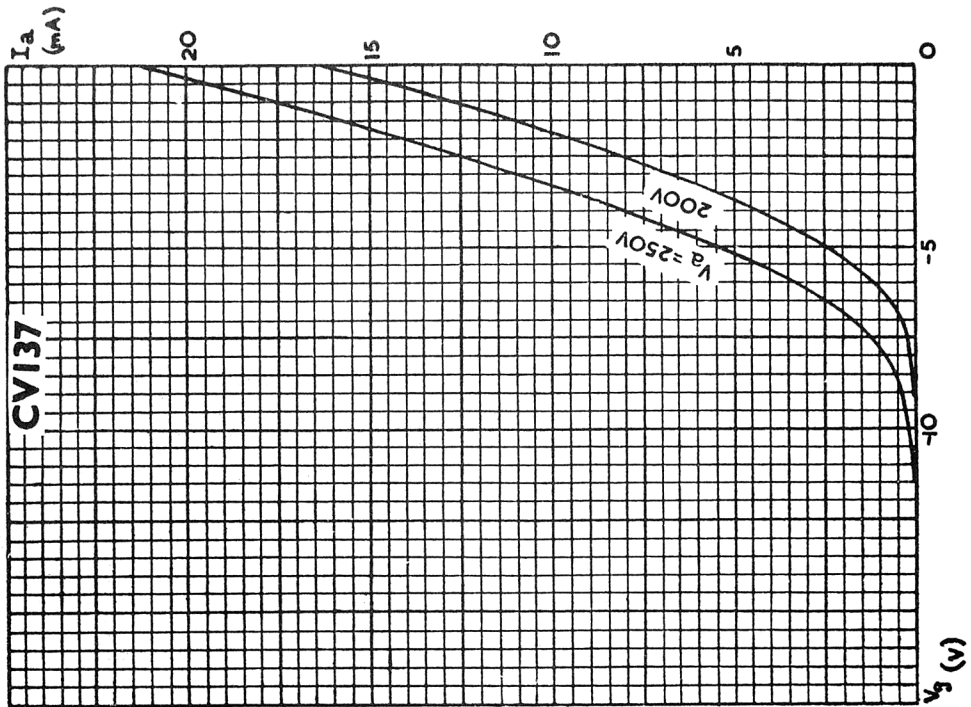
Approx. Coil Data - L1 - Turns _____ 3½
 Coil diameter _____ 10 mm
 Coil length _____ 7 mm
 Wire diameter _____ 1 mm

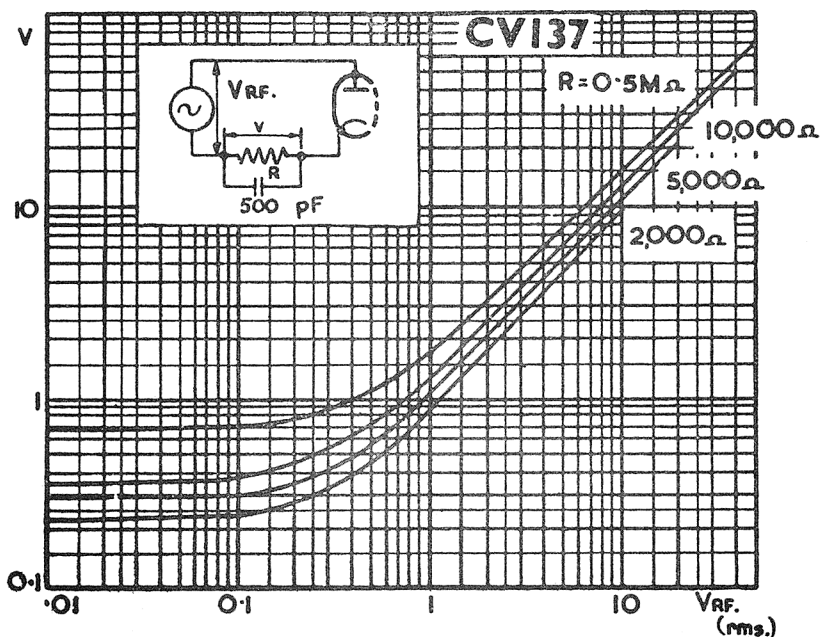
L2 - Dust cored, tunable to intermediate frequency

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.

