## Page 1 (No. of pages: 3) MINISTRY OF SUPPLY (D.C.D.)

## VALVE ELECTRONIC CVIO48

Specification MAP/CV1048/Issue 6
Dated 24.1.49
To be read in conjunction with K1001.

Specification (

RESTRICTED

Valve UNCLASSIFIED

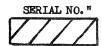
Indicates a change									
TYPE OF VALVE - Screen Grid To  CATHODE _ Directly heate ENVELOPE - Glass-Metallis PROTOTYPE - 215 SG.	MARKING See K1001/4. Plus additional marking (see Page 2  PACKING See K.1005 and Page 2 (Note 3)								
RATING Filament Voltage (V)	2.0 0.15 180 80 1.1 0.3 330	Note	BASE B4						
Filament Current Max. Anode Voltage Max. Screen Voltage Mutual Conductance Anode Impedance Amplification Factor			Pin  1 2 3  4. T.C.	Screen grid Control grid Filament negative and metallising Filament positive					
CAPACITANCES (pF) Cag (max.)			TOP CAP See K. 1001/AI/D5.4						
			<u>DIMENSIONS</u> See Kl001/AI/Dl						
			Dimension		Min.	Max.			
			<b>A</b> B	(mm) (mm)	-	131 45			
			Diameter mm. up bottom	t to exce 58 mm. fr	rom				

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## ADDITIONAL MARKING

1. The following shall appear on the bulb: -





The letter "W" shall be a  $\frac{1}{4}$ " character and the other letters in  $\frac{1}{8}$ " characters.

2. The valves shall be numbered, on the base or bulb, in sets of three, matched as in test 'b', each valve of a set bearing the same number which shall appear immediately in front of the factory identification code letter. Numbers shall be used progressively and shall be repeated after the 999th set.

## 3. Packing

For packing of matched sets - see K.1001/7.5 The package shall be labelled thus:

One set of
Three Selected Matched
Valves Type CV1048
Ref. No.10CV/1048
for use in Wavemeters.

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

Ī			Dec.	-	londi ti		Test			Limits Min. Max.		No.
1		Test Conditions						Test			Max.	Tested
-		Measured using Adaptor type 35 Ref. 10A/13331										
	a	See KlOOL/AIII										
		Links to Links to H.P. L.P.				Links to E	CAP	ACITANCES	(pF)			
		TCl 2		2	1,3,4 5,6,7 8,9,10 TC2	1.	Cag		-	0.005	б per week	
		TC1 1,2,3,4		5,6,7 8,9, 10 TC2	2.	Ca-all		5•0	8.0	100%		
		Vf	Vэ		Vgl	Vg2						1000
	ъ	2.0	0		0	0	If		(A)	0.135	0.165	100% or S
	С	2.0	18	30	0 to -1	60	gm		(mA/V)	0.9	1.35	100%
	đ	2.0	2.0 180 0 60 to 120 60		Ia	change	(mA)	0.06	0• 24	100% or S		
	е	2,0	18	30	0	60	Ia Igl		(mA)	1.75	3• 25	100%
	f	1.8	18	80	-1	60			( μ <b>Α</b> )	-	1.0	100%
	g	See I	(100	1/	5.8.2.		_	ROPHONIC SE TEST				100%
	h	MATCHING								-		
		The valve shall be matched in sets of three having the same capacitance to within 0.1pF. of each other.										