(Note G)

<u>DIMENSIONS</u>
See attached drawing

Screen Grid

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

Specification No. MOS/CV. Issue 1 Dated 1.1.57. To be read in conjunction and BS 1409			ificat assifi		Valve Unclassified		
TYPE OF VALVE: Velocity-modulated coaxial line oscillator ENVELOPE: Glass CATHODE: Indirectly Heated See Klool/4 PROTOTYPE: CV-228 selected							
Nominal heater current	(V) 6.3 ± 1 (A) 0.3 (V) -10V	%	Note A A	BASE B7G CONNECTIONS			
Screen voltage V _{g2} Anode voltage V _a Power output (Min.)	(V) 220 ± 1 (V) 0 to V; (V) (VRes (VRes 0.25)	Res -10)to	B C D E	Pin 1 2 3 4 5	Grid Cathode Heater Heater Anode Resonator		

NOTES

F

1100

A. AC frequencies above 65 c/s must not be used.

gauss

3. At f = 4650 Mc/s.

Magnetic field (min.)

- C. Adjust to give specified cathode current. Vg2 must not exceed VRes
- D. Operation with Va = VRes may result in increased noise output.
- E. Measured at 4650 Mc/s with coupling adjusted to optimum.
- F. Magnet Jessops Type Nos. 10512 or 9501.

Tuning range (min.) (Mc/s) 4580 to 4860

G. The copper disc to connect internally to pin 6.

To be performed in addition to those applicable in KlOCl

Test Conditions							Test		Limits		No.
1000 October and the second							10,50	Min.	Max.	Tested	
	$rac{v_h}{(v)}$	Vgl (V)	ν _a (ν)	$v_{ ext{Res}} \ (v)$	∀g2 (∀)	Ik (mA)					
а	6.3	-	-	-	-	1	Heater current	(A)	0.25	0.35	1 00%
Þ	6.3		240 See N	220. ote 3	Adj.	4 0	Anode current Screen Voltage Screen current Grid current	(m4) (V) (mA) (µA)	17 - -	-) 160) 3) 30)	100%
O:	Oscillations at 4,650 Mc/s					/s					
0	6.3		+20	Adj.		ነ ተ ር፡	Resonator Voltage Power output Circuit length	(V) (mW) (cms)	200 250 -	230) - 4•75) (1 _{c2}))	100,7
0	scil	lati	ons a	t 4,8	50 Mc,	/s					
		-10	VRes +20	Adrj. s l t	Adj.	_	Circuit length	(cms)	6.05 (l _{cl})		100%
е							1 _{c1} -1 _{c2}	(cms)	1.45	1.80	100%

NOTES

- 1. The valve to be operated in an approved circuit constructed from 2" x 1" internal, waveguide, with an output probe situated in the centre of the end face of the cavity adjacent to the valve. The coupling to be adjusted for maximum output power.
- 2. VRes to be adjusted for maximum output power.
- 3. The magnet must be adjusted to give maximum anode current. If the magnet is finally fixed in relation to pins engaging the location holes in the tube disc, tubes may be changed without further adjustment. The magnet should have a field strength of between 1100 and 1150 gauss.
- 4. Circuit length l_c is measured between the longitudinal axis through the valve and the shorting face of the piston.