

<u>Specification:</u> G.P.O./CV 5292 <u>Issue:</u> 1. October 1963 To be read in conjunction with K1001, BS1409 and BS448	<table><tr><th colspan="2"><u>Security</u></th></tr><tr><td><u>Specification</u></td><td><u>Valve</u></td></tr><tr><td>Unclassified</td><td>Unclassified</td></tr></table>	<u>Security</u>		<u>Specification</u>	<u>Valve</u>	Unclassified	Unclassified
<u>Security</u>							
<u>Specification</u>	<u>Valve</u>						
Unclassified	Unclassified						

→ Indicates a change

<u>Type of Valve:</u> Co-axial Line, Velocity Modulated Oscillator			<u>Marking</u>	
<u>Cathode:</u> Indirectly Heated				
<u>Envelope:</u> Glass			See K1001/4	
<u>Prototype:</u> V238A/1K				
<u>RATINGS and CHARACTERISTICS</u> (Not for Inspection purposes) <u>ALL limiting values are absolute</u>			<u>Base</u> BS448/B7G	
			<u>Note</u>	
Heater Voltage (V)			6.3	
Heater current (nom) (A)			0.25	
Max. Anode Voltage (V)			450	
Max. Cathode current (mA)			50	
Max. Resonator voltage (V)			450	
Max. Screen voltage (V)			400	
Max. Screen current (mA)			3.75	
Min. Frequency range of oscillation (Mc/s)			3555 to 4250	
Min. Power output over the frequency range of oscillation. (W)			0.55	
			<u>Connections</u>	
			<u>Pin</u>	<u>Electrode</u>
			1	g ¹
			2	k
			3	h
			4	h
			5	a
			6	Res
			7	g ²
			<u>Dimensions</u>	
			See Drawing on Page 3	

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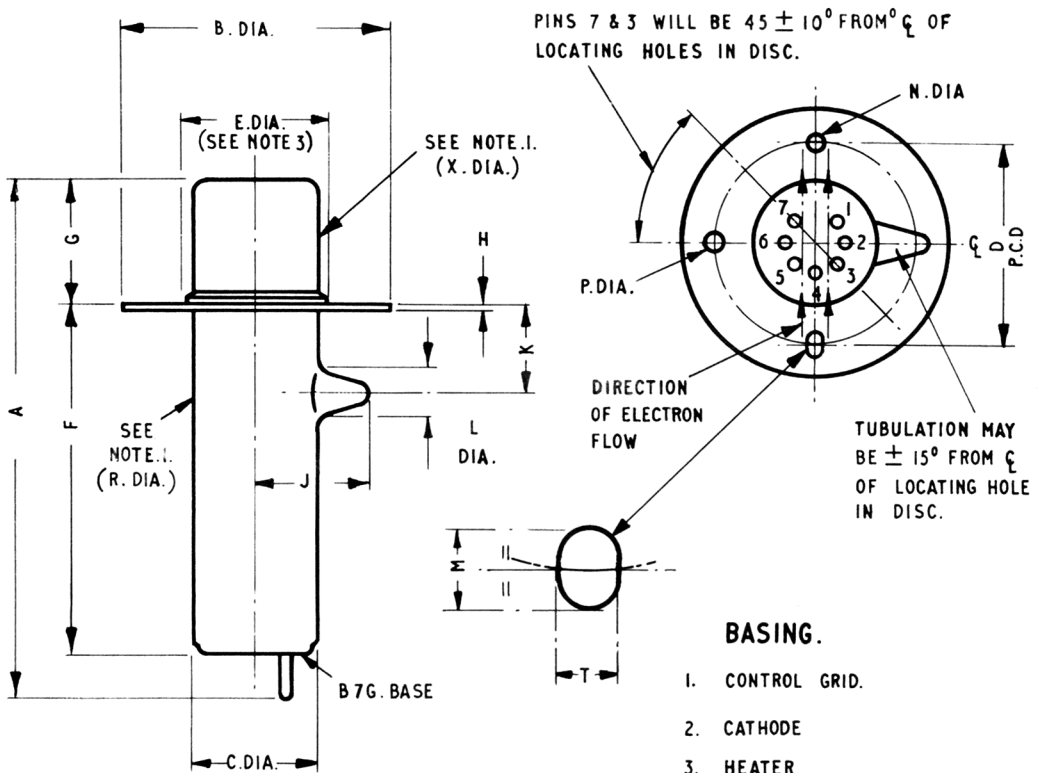
TESTS

To be performed in addition to those applicable to K1001

Test Clause	Test Conditions							Test & Units	Limits		
	Vh (Volts)	Vg1 (Volts)	Va (Volts)	VRes (Volts)	Vg2 (Volts)	Ia (mA)	Ik (mA)		Min	Max	Notes
a	6.3	-	-	-	-	-	-	Ih (A)	0.235	0.265	1, 3.
b	6.3	-4.0	4.00	380	Adj.	-	50	Ia (mA)	35	-	1, 2, 3.
	"	"	"	"	"	-	"	Vg2 (V)	110	190	1, 2, 3.
	"	"	"	"	"	-	"	Ig2 (mA)	-0.1	+1.0	1, 2, 3.
	"	"	"	"	"	-	"	Ig1 (μA)	-	30	1, 2, 3.
c	6.3	-4.0	4.20	Adj. for Max. R.F. Power	Adj.	36	-	Oscillation Freq. Test 1			1, 2, 3.
								Frequency (Gc/s)	4.25	4.255	
								VRes (V)	365	410	
								Power Output (W)	0.55	-	
								Circuit Length (Cm)	4.0	-	
d	6.3	-4.0	3.10	Adj. for Max. R.F. POWER	Adj.	38	-	Oscillation Freq. Test 2			1, 2, 3.
								Frequency (Gc/s)	3.55	3.555	
								VRes (V)	255	295	
								Power Output (W)	0.55	-	
								Circuit Length (Cm)	-	12.10	

NOTES

1. The tests are to be performed with the valve in a circuit approved by the Type Approval Authority.
2. The heater shall be pre-heated for a period of not less than one minute before this test is carried out.
3. The inspection levels are to be agreed with the Inspection Authorities.

**NOTES:-**

1. THIS PORTION OF BULB WILL NOT FOUL A CYLINDER OF INT.DIA. SPECIFIED WHICH IS CONCENTRIC WITH THE PITCH CIRCLE OF THE LOCATING HOLES IN THE DISC.
2. BASIC FIGURES ARE INCHES.
3. ALSO MIN. CLAMPING DIA.

DIM.	MILLIMETRES		INCHES		DIM.	MILLIMETRES		INCHES	
A	88	MAX.	3.46	MAX.	K	13.5	± 4.0	0.53	± 0.16
B	42	MAX.	1.65	MAX.	L	8.5	MAX.	0.33	MAX.
C	20.1	MAX.	0.79	MAX.	M	3.2	$+0.13$	0.125	$+0.005$
D	30.96	± 0.06	1.218	± 0.002			-0.00		-0.000
E	24	MAX.	0.94	MAX.	N	2.36	$+0.06$	0.093	$+0.002$
F	60	MAX.	2.36	MAX.			-0.00		-0.000
G	15.88	MIN.	0.625	MIN.	P	2.79	$+0.13$	0.110	$+0.005$
	20.63	MAX.	0.812	MAX.			-0.00		-0.000
H	0.3	MAX.	0.012	MAX.	Q	21.59	MIN.	0.850	MIN.
J	18	MAX.	0.710	MAX.	R	20.32	MIN.	0.800	MIN.