### VALVE ELECTRONIC

## CV668

### MINISTRY OF SUPPLY (D.C.D.)

Specification M.A.P./CV.668
Issue 1 Dated 13.10.50.
To be read in conjunction with K1001

SECURITY
Specification Valve
UNCLASSIFIED UNCLASSIFIED

	<del></del>	Indicates	a change				
TYPE OF VALVE - Transmitting Triode  CATHODE - Directly Heated Thoriated Tungsten	MARKING See K1001/4						
ENVELOPE - Glass, Unmetallised PROTOTYPE - 35T	BASE USM4B						
RATING	CONNECTIONS						
		Note	Pin	Electrode			
Filament Voltage (V) Filament Current (A) Max. Anode Voltage (kV) Max. Anode Dissipation (W) Max. Grid Current (mA) Amplification Factor Max. Frequency for above	5.0 3.8 2.0 35 35 35 39		2 3	Filament No connection Grid Filament Anode			
ratings Mo/s			DIMENSIONS				
CAPACITANCES (pF)	1.65 2.60 .225		See K1001/A1/D1				
Cga (nom)			Dimension	Min.	Max.		
Cge (nom)			A	5.250"	5.500"		
()			В	_	1.813"		
			TOP CONNECTOR				
			Dimension	Min.	Max.		
			Length	.312"	•		
			Diameter	•065"	.071"		

# CV668

Tests
To be performed in addition to those applicable in K1001

Test Conditions					Test		Limi Min.	ts Max.	No. Tested	Note	
	See K1001/A111 Measurements to be made in Adapter Type				CAPACITANCE (pf)						
	Links to H.P.	Link: L.		Li	nks to						
	3	TC	1	1,2,4,5,6,7, 8,9,10,TG2.		Cga		1.4	2.2	6	
	3	1,	4		6,7,8,9, 01,TC2.	Cge		3.0	5.0	per	
	TC1	1,1	4	2,3,5,6,7,8, 9,10,TC2.		Cae		0.08	0.23	week	
	Vf (V)	Va (kv)	V (	Vg Ia (mA)						100%	
ъ	5.0	0		0	0	If	(A)	3.6	4.2	or S	
c	5.0	1.0	Adj	just	35	Vg1	(v)	-6.0	-11.5	100%	
đ	5.0	1.0	Adj	lust	<b>3</b> 5	Reverse Ig	( <b>µA</b> )	-	<b>1</b> 5	100%	
0	5.0	1.0	Adj	just	35	μ		<b>3</b> 5	43	100% or S	
f	5.0	See Note 1				Peak Emission	(A)	2.0	-	100%	1
g	5.0	See Note 2				Power Oscillation	(W)	45	-	T.A.	2

#### NOTES

- 1. The test is performed with Anode and Grid strapped. Peak applied voltage 2.5 kV; Tp = 2  $\mu$  Secs. PRF = 50 per sec. The pulse shape is half sine wave.
- 2. The valve shall be tested in an oscillatory circuit at a frequency of 8.0 Mc/s under the following conditions: Va = 1000 V. DC.; Ia = 80 mA DC.; Rg = 2500  $\Omega$ ; Ig = 20 mA DC.