VALVE ELECTRONIC

GENERAL POST OFFICE: E-IN-C (S)

CV2189

Specification: GPO/CV2189/Issue 2

Dated: JAN. 1954.

To be read in conjunction with K 1001

SECURITY

Specification
Valve
Unclassified
Unclassified

----> indicates a change

TYPE OF VALVE: Velocity mod CATHODE: Indirectly h	MARKING SEE K1001/4			
ENVELOPE: Glass	DIMENSIONS			
PROTOTYPE V240C/2K			See drawing on Page 3	
RATING		Note	e <u>BASE</u> B 7G	
Heater voltage Heater current Tuning range Control grid voltage Vg1 Resonator voltage VR Screen grid voltage Vg2 (max Anode voltage Va Cathode current (max) Screen grid dissipation (max Power output (min) Mean power input (max) Magnetic field	(V) 300 (mA) 65		CONNEXIONS Pin Electrode Control grid Cathode Heater Heater Anode Resonator Screen grid	

- Notes A. Adjusted to give a constant anode current of 35 mA.
 - B. Maintained constant at 300 volts throughout the tuning range
 - C. The total thermal drift from cold to the final operating frequency is between 7 and 10 Mc/s and is completed in about 5 mins. The frequency change with ambient temperature is about 50 kc/s per OC.

C	:\V	2	18	•	formed i	*100	ESTS	on to those applicable to	K 100	11	1	Page
	Test Conditions							Test		Limits Min Max		N o t
a	Vh (V) 6.3	Vg1 (V)	(¥)	VR (V)	Vg2 (V)	Ia (mA)	Ic (mA)	Heater current (mA)	235	265	100%	1
Ъ	6.6	-40	300	280	Adjust	-	50	Resonator current (mA) Screen grid voltage (V) Screen current (mA) Control grid current (µA)	-	16 145 1.5 30	100%	2
°	5.0	-40	300	280	As in Test b	-	-	Cathode current (mA)	40	-	100%	2
đ	6.0	-40	300	Adjust for max R.F. power	Adjust	35	-	Oscillation at 3940 Mc/s Resonator voltage (V) Power output (mW)	240 350	l	100%	2
e	6.0	-40	300	Adjust for max R.F. power	Adjust	35	-	Oscillation at 4060 Mc/s Resonator voltage (V) Power output (mW)	240 350		100%	2

NOTES 1. The heater shall be preheated for a period of not less than one minute before this and subsequent tests are carried out.

2. These tests to be carried out in an approved circuit.

