VALVE ELECTRONIC CV 1881

Specification MOS(A)/CV1881	SECURITY		
Issue 4 Dated 24. 6. 55	Specification	<u>Valve</u>	
To be read in conjunction with K1001	UNCLASSIFIED	UNCLASSIFIED	

Indicates a change

TYPE OF VALVE - Argon-filled Noise Tube				MARKING		
CATHODE - Directly-heated			See K1001/4			
ENVELOPE - Glass			BASE & CONNECTIONS			
PROTOTYPE - VX4144				See Drawing on Page 3		
RATING Note				DIMENSIONS		
Filament Voltage (V)				See Drawing on Page 3		
Filament Current Striking Voltage on DC Normal Operating Voltage (Ia=180mA) (V)		0.4 1000 60	A	MOUNTING POSITION		
Max. Operating Nom. Continuo Nom. Noise Po Nom. Noise Po	250 180 15•5	B C	Any			
with Currer Nom. Useful W	nt (db/mA) Forking Frequency Range (Mc/s)	-0.005 3000 to 12000				
Nom. Gas Pres	ssure (mm)	30				

NOTES

- A. With earthed metal sheath.
- B. The discharge current should be adjusted for optimum matching conditions but must not fall below 160 mA if instability is to be avoided.
- C. Relative to thermal noise at 17°C

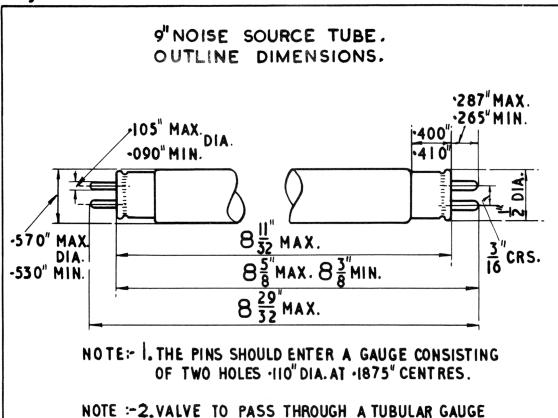
To be performed in addition to those applicable in K1001

	Test	Test Conditions	AQL	Insp.	Sym-	Limits		Units
1680	rest Conditions	%	Level	bol	Min.	Max.		
а	Filament Current	Vf = 6.3V Note 1	6.5	I	If	0.35	0.45	A
ъ	VSWR	Vf = 6.3V f = 9375 ± 5Mc/s Note 2	6.5	I		0.95	-	1
С	Insertion Loss	Vf = 0 f = 9375 ± 5Mc/s Note 3	6•5	I		-	0.25	đb
đ	Torque Applied to each cap	See K1001/12.3	6•5	I		-	1.5	in-lb

NOTES

- The valve shall be pre-heated for 15 secs before performing the test. The test shall be applied to each filament in turn.
- 2. The valve shall be inserted into an approved 15° E-plane mount on a No. WG16 waveguide system and terminated in a matched load. The empty mount shall be screw-tuned to give a VSWR of at least 0.98: 1. The valve shall be operated at a discharge current of 180 ± 5mA. The power shall be derived from a matched source through an attenuation of at least 6 db.
- The valve shall be inserted into an approved 15° E-plane mount on a No. WG16 waveguide system and terminated with a matched detector.

Using an empty mount and not more than 1.0 mW RF derived from a matched source through an attenuation of at least 6 db, the detector reading shall be noted. The valve shall remain inert.



TEST MOUNT.

OF 0.610"INT. DIA. AND LENGTH 8 INCHES.

