## VALVE ELECTRONIC CV 1881

Specification MOS(A)/CV1881	SECURITY		
Issue 4 Dated 24. 6. 55	Specification	Valve	
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 - VA4144	See Drawing on Page 3	
RATING		DIMENSIONS
· ·	- No	ote
Filament Voltage (V) Filament Current (A)	6.3	See Drawing on Page 3
Striking Voltage on DC (V) Normal Operating Voltage (Ia=180mA) (V)	1000 A	MOUNTING POSITION
Max. Operating Current (mA) Nom. Continuous Operating Current (mA)	250 180 E	
Nom. Noise Power Available (Ia=180mA) (db) Nom. Noise Power Output Change	15.5	0
with Current (db/mA)	-0.005	1
Nom. Useful Working Frequency Range (Mc/s)	3000 to 12000	
Nom. Gas Pressure (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

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To be performed in addition to those applicable in K1001

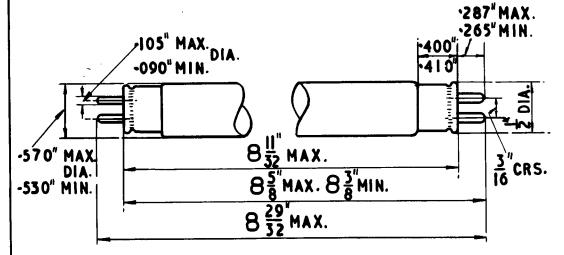
1	Test		Test Conditions	AQL	Insp.	Sym-	Limits		
		1650	rest Conditions	%	Level	bol	Min.	Max.	Units
	a	Filament Current	Vf = 6.3V Note 1	6.5	I	ц	0.35	0.45	A
	Ъ	VSWR	Vf = 6.3V f = 9375 ± 5Mc/s Note 2	6.5	I		0.95	_	•
	C	Insertion Loss	Vf = 0 f = 9375 ± 5Mc/s Note 3	6.5	I		1	0.25	đb
_	a	Torque Applied to 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.

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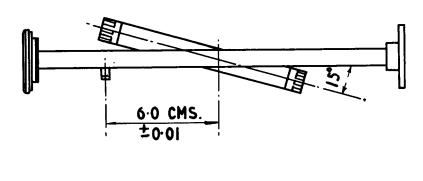




NOTE: I. THE PINS SHOULD ENTER A GAUGE CONSISTING OF TWO HOLES 110" DIA. AT 1875" CENTRES.

NOTE :- 2. VALVE TO PASS THROUGH A TUBULAR GAUGE OF 0.610 INT. DIA. AND LENGTH 8 INCHES.

TEST MOUNT.



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