CV4524

MINISTRY OF AVIATION - DLRD/RRE VALVE ELECTRONIC

Specification MOA/CV 4524	SECURITY
Issue 1 dated 3rd January, 1962	Specification Valve
To be read in conjunction with K1001	Unclassified Unclassified

indicates a change

TYPE OF VALVE: Rugged Tunable Klystron oscillator with integral cavity and waveguide output

CATHODE: Indirectly-heated

ENVELOPE: Shielded metal glass

PROTOTYPE: CV4515

MARKING

See K1001/4

Addition Marking

Serial No.

BASE, CONNECTIONS, DIMENSIONS, MOUNTING POSITION, AND NOTES

See specification CV4515

Issue 1 dated 17/11/58

RATING

All limiting valves are absolute

		Note	
Heater Voltage	(V)	6.3	
Heater Current	(A)	0.56	
Mechanical Tuning Frequency	(Mc/s)	8970 to 10,000	B
Min. R.F. Power Output	(mW)	30	
Max. Resonator Voltage	(V)	400	
Max. Resonator dissipation	(W)	20	
Reflector Voltage Range (Vres = 350V)	(V)	-250 to -400	C
Max. Mechanical Resetting error	(Mc/s)	3	
Min. Electronic tuning Range	(Mc/s)	±10	
Min. Electronic tuning Gradient at Mode optimum	(Mc/s/V)	0.5	
Max. total impedance in Reflector to Cathode Circuit	(M ohms)	0.5	
Max. operating Ambient temperature	(°C)	70	
Max. Ambient Storage temperature Range	(°C)	-60/+85	
Max. Body temperature	(°C)	165	D
Max. Vibration (10 minutes duration Max.)	(g)	20	E
Max. Constant Acceleration	(g)	50	
Min. Operating Pressure	(mms.Hg)	20	

TESTS

The tests required by specification MOS/CV 4515 shall be performed except that -

(a) the frequency tuning range or band where mentioned, shall read 8970 to 10,000 Mc/s and

(b) test frequency (a) in Note 4, page 6, shall be amended to read 8970 Mc/s

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