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MINISTRY OF AVIATION - DLRD/RRE

VALVE ELECTRONIC

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

indicates a change

ENVELOPE: Shielded metal glass PROTOTYPE: CV4515 RATING All limiting valves are absolute Heater Voltage Heater Current Mechanical Tuning Frequency Max. Resonator Voltage Max. Resonator Voltage Max. Resonator dissipation Reflector Voltage Range (Vres = 350V)(V) Max. Mechanical Resetting error To Cathode Circuit Max. Operating Ambient temperature Range Max. Body temperature Range Max. Body temperature Range Max. Body temperature Range Max. Roboty temperature Range Max. Body temperature Max. Body temperature Max. Body temperature Max. Body temperature Max. Wibration (10 minutes Addition Marking Serial No. BASE. CONNECTIONS, MOUNTING POSITION, AND NOTES See specification CV4515 Issue 1 dated 17/11/58 Issue 1 dated 17/11/58 MOUNTING POSITION, AND NOTES See specification CV4515 Issue 1 dated 17/11/58 O.56 to -400 400 20 -400 5 5 10,000 O.5 To 0.5 Max. Mobient Storage temperature Range Max. Wibration (10 minutes	TYPE OF VALVE: Rugged Tunable Klystron oscillator with integral cavity and waveguide output			MARKING See K1001/4	
PROTOTYPE: CV4515 RATING All limiting valves are absolute Heater Voltage (V) 6.3 MOUNTING POSITION, AND NOTES See specification CV4515 Min. R.F. Power Output (mW) 30 Max. Resonator Voltage (V) 400 Max. Resonator dissipation (W) 20 Reflector Voltage Range (Vres = 350V)(V) -250 C to -400 Max. Mechanical Resetting error (Mc/s) 410 Min. Electronic tuning Gradient at Mode optimum (Mc/s/V) Max. total impedance in Reflector to Cathode Circuit (M ohms) Max. Ambient Storage temperature (°C) Max. Ambient Storage temperature (°C) Max. Body temperature (°C) Max	CATHODE:	THODE: Indirectly-heated			Addition Marking
RATING RATING All limiting valves are absolute Heater Voltage Heater Current Mechanical Tuning Frequency Min. R.F. Power Output Max. Resonator Voltage Max. Resonator Voltage Max. Resonator Voltage Max. Resonator Voltage Range (Vo) Reflector Voltage Range (Vres = 350V)(V) Max. Mechanical Resetting error at Mode optimum Amounting Frequency Mode of the section	ENVELOPE:	Shielded metal glass			Serial No.
RATING All limiting valves are absolute Heater Voltage Heater Current Mechanical Tuning Frequency Min. R.F. Power Output Max. Resonator Voltage Max. Resonator Voltage Reflector Voltage Range (Vres = 350V)(V) Max. Mechanical Resetting error Min. Electronic tuning Range Min. Electronic tuning Gradient at Mode optimum Max. total impedance in Reflector to Cathode Circuit Max. Ambient Storage temperature Range Max. Body temperature Range Max. Body temperature (°C) Max. Body	PROTOTYPE: CV4515			DACE CONNECTIONS	
Heater Voltage Heater Current Mechanical Tuning Frequency Min. R.F. Power Output Max. Resonator Voltage Max. Resonator dissipation Reflector Voltage Range (Vres = 350V)(V) Max. Mechanical Resetting error Min. Electronic tuning Range Min. Electronic tuning Gradient at Mode optimum At Mode Optimum At Mode Optimum CV4515 Issue 1 dated 17/11/58 Issue 1 dated 17/11/58 C to 10,000 20 -250 C to -400 Max. Mechanical Resetting error Mc/s Min. Electronic tuning Range Mc/s Min. Electronic tuning Gradient at Mode optimum CMC/s/V) Max. total impedance in Reflector to Cathode Circuit Mc/s/V) Max. ambient temperature C C Max. Ambient Storage temperature Range Max. Body temperature C C Max. Body temperature C C Max. Body temperature	All limiting volves one obsolute			<u>DIMENSIONS</u> , MOUNTING POSITION,	
Min. R.F. Power Output (mW) Max. Resonator Voltage (V) Max. Resonator dissipation (W) Reflector Voltage Range (Vres = 350V)(V) Max. Mechanical Resetting error (Mc/s) Min. Electronic tuning Range (Mc/s) Min. Electronic tuning Gradient at Mode optimum (Mc/s/V) Max. total impedance in Reflector to Cathode Circuit (M ohms) Max. operating Ambient temperature (°C) Max. Ambient Storage temperature Range (°C) Max. Body temperature (°C) Max. Body temperature (°C)	Heater Current	(A)	6.3 0.56 8970 to	В	CV4515
Max. Mechanical Resetting error (Mc/s) Min. Electronic tuning Range (Mc/s) Min. Electronic tuning Gradient at Mode optimum (Mc/s/V) Max. total impedance in Reflector to Cathode Circuit (M ohms) Max. operating Ambient temperature (°C) Max. Ambient Storage temperature Range (°C) Max. Body temperature (°C)	Max. Resonator Max. Resonator	Voltage (V) dissipation (W)	30 400 20 -250 to	С	
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	Min. Electronic Min. Electronic at Mode optim	tuning Range (Mc/s) tuning Gradient num (Mc/s/V)	±10		
· · · · · · · · · · · · · · · · · · ·	to Cathode Ci	rcuit (M ohms) Ambient temperature (°C)			
, , , , , , , , , , , , , , , , , , , ,	Range Max. Body tempe	rature (°C) (10 minutes	165		
duration Max.) (g) 20 E Max. Constant Acceleration (g) 50 Min. Operating Pressure (mms.Hg) 20		oceleration (g)	50	E	

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 Mo/s and
- (b) test frequency (a) in Note 4, page 6, shall be amended to read 8970 Mc/s JOINT SERVICE CATALOGUE NUMBER: 5960/99/037/2538