Page 1. (No. of pages :- 3) MINISTRY OF SUPPLY (S.R.D.E.)

Mean Power Input (Max) (Watts)

Peak Anode Voltage (kV)

TYPICAL OPERATING CONDITIONS

Current (A

MOS/CV251/6

VALVE ELECTRONIC CV 251

SECURITY

See Page 3

See K1001/7.3

PACKING

Specification No. MOS/CV251/O	DECORTE							
Dated: 25.9.45.	Specification Valve	. 1						
To be read in conjunction with	SHORING RESTRICT	ED						
ignoring clauses 5.2, 5.3, 5.8.	"你就可以包括你 "。							
Indicates a change								
TYPE OF VALVE : Magnetron	MARKING							
CATHODE: Indirectly Hea	As in K1001/4, also th	e						
ENVELOPE : Me tal Glass	word "Cathode" and an							
	arrow shall be marked on							
(This valve is the CV209 with	the valve in such a							
special tests)	position as to indicate							
	to which of the filament							
	terminals the cathode							
	is connected.							
RAT ING	No	otes BASE						
A42 millions il vand de A100 per el Califa.		None	1					
Filament Voltage (Volts)	6.3							
Filament Current (Amps)	0.8	DIMENSION AND	90'000					
Nominal Frequency (Mc/s)	9475	ELECTRODE CONNECTION	S					
Nominal Wavelength (cms)	3.17							

160

18 A & B

25 A & B

Field Strength (Gauss)

Peak Power Output (kW)

NOTES

A When are noted under those conditions the magnetron must be

- A. When operated under these conditions the magnetron must be air-cooled such that the temperature of the block does not exceed 140°C.
- B. The operating conditions apply only to pulse lengths between 0.1 and 0.15 µS.

CV251

TESTS Page 2.

To be performed in addition to those applicable in kich										
	Test Conditions		l	Limits		No.	L			
				Test	Min.	Max.	Tes ted	Note		
	Field Strength (gauss)	Vf	Magnetron Peak Current (amps)							
a	0	6.3	0	If (amps)	0.7	0.9	100%			
ъ	3250 <u>+</u> 50	3.0	30	Peak Va(kV)	17	20	100%	2 & 3		
C	3250 <u>+</u> 50	3.0	30	Output Frequency Mc/s	9350	9600	100%	3 & 4		
đ	3250 <u>+</u> 50	3.0	30	Peak Power Output (kW)	120	_	100%	3		
			NOTES							

- For the above tests the temperature of the anode block shall not exceed 140°C.
- 2. The valve shall run for a period of one minute with Vf = 6.3. At the end of that time, the H.T. voltage shall be switched on and the filament voltage shall be switched down simultaneously. All subsequent tests shall be carried out with Vf = 3.0.
- 3. This test shall be carried out with a Modulator Type ZC.22278 or one of design approved by R.R.D.E., and a standard output unit Type ZC.22272 terminated in a resistive load giving less than 1.1 standing wave voltage ratio. The matching shall be adjusted for maximum power consistent with Note 4.
- 4. The current waveform and R.F. envelope shall be a clearly defined single trace.

