ELECTRONIC VALVE SPECIFICATIONS.

SPECIFICATION MAP/CV 349 ISSUE 3 DATED 21.7.49.

AMENDMENT NO.1

Page 4. Outline Drawing.

Insert the following note.

"Protective sock shall be sprayed with Silicone Varnish Ref. D4080".

August, 1963.

TVC. for RRE.

R. 190373

VALVE ELECTRONIC

CV 3 4 9

			5 ·
Specification MAP/CV349/Issue 3	SECURITY		
Dated 21.7.49. To be read in conjunction with K1001, ignoring clauses: - 5.2, 5.8.	Specification RESTRICTED	<u>Valve</u> UNCLASSIFIED	4

	427		[ndicate	es a change	
TYPE OF VALVE - Enclosed Triggered Spark Gap.		MARKING See K1001/4. PACKING See K1005			
CATHODE - Cold ENVELOPE - Glass - unmetallised protected (See Note B) PROTOTYPE - CV.6008					
			BASE 3 pin Quindecal		
RATING			Note	Pin C	CONNECTIONS Electrode
Trigger Voltage Min. Working Voltage Peak Output Power	(KA) (KA) (KA)	3.2 6.6 160	A A A	1 2 to 7 8 9 to 14 15 T.C.	Trigger electrode Omitted Anode Omitted No connection Cathode
				<u>TOP CAP</u> See K1001/AI/D5.11	
	<u>-</u>		· .		MENSIONS drawing on page 4.

NOTES

A. Under the following conditions:-

Main Gap Voltage = 7.2 kV.

Pulse Length = 1.0 µsec. Repetition Frequency = 1200 per sec.

Constant current charging is used and the load and line are matched.

B. The valve shall be provided with adequate colinter proofing.

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- 	To be performed in		- appt	CAULS IN	V. TOOT	
	Test Conditions	Test	Limi	ts Max.	No. Tested	Note
For	the purpose of the following the the the sured with respect to the an	ng tests, all ele ode, which enclos	ctrode	potenti: trigger	als shall rod.	be
	Cathode Voltage = -4.5kV. max. Trigger circuit shall be derived from an approved pulse generator supplying a positive pulse of 8.5kV. + 10% on open circuit, at a repetition frequency of 1,200 per sec., and with a build up time to max. voltage of 0.5-0.75 μsec. The line shall be of 80 Ω impedance and designed for a pulse length of 1 μsec., and shall be charged through a choke of 180H. The external load shall be matched to the line.	A spark shall occur which also delivers power to the load circuit.			100%	1
- 10	Cathode Voltage = -7.2kV. Other conditions as in test clause 'a'.	Trigger Breakdown Voltage (kV)	-	5.0	100%	
- [(Cathode voltage = -6.6kV. Other conditions as in test clause 'a'.	i. Jitter (µsex) (Total lateral movement of the trailing edge of the monitored pulse). ii. Fluctuations of amplitude.	-	0.2 + 10%	100%	

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٠.	Test Conditions	Test	Lim	Lts	No.		
		Min.	Max.	Tested	Note	١.	
đ	Cathode Voltage = -8.4kV. Other conditions as in test clause 'a'.	i. Jitter (µsecs.) (Total lateral movement of the trailing edge of the monitored pulse). ii. Fluctuations of amplitude.	-	0.2 ±10%	100%		
9	With the set-up as in test clause 'a' the cathode voltage shall be increased until unstable operation occurs.	Negative Cathode voltage at which irregular break-down (i.e. break-down not correlated with the trigger pulse) occurs at a rate of between 1 and 6 times per sec. (kV)	11.0	••	100% or S		

NOTE

1. Test clause 'a' must be performed first in the test schedule.

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DIMENSIONS IN M/M