## VALUE ELECTRONIC CV2287

Specification M.O.S./CV.2287.

Issue 1. Dated 20.4.53.

To be read in conjunction with

K1001 ignoring clauses 10 and 11.

## SECURITY

Specification Restricted

<u>Tube</u> Unclassified

		Indicates a change					
TYPE: Tube, counter, G.M. single engamma.  ENVELOPE: Glass.  PROTOTYPE: 20th Century Electronic  EFFECTIVE ANODE LENGTH: 120 m.m.	MARKING  As in K1001/4. Additional markings;— Threshold voltage in the form V <sub>T</sub> =						
		<u>Packing</u> As in K1005					
<u>ratino</u>		Note	te <u>BASE</u> See page 3.				
Operating volts, V <sub>W</sub> = V <sub>T</sub> +40 volts. (Average at 20°C.)	380	A	PIN	ELECTRODE			
Plateau length volts. (Average)	120		1 2	Anode Cathode			
Plateau Slope %/volt. (Average)	0.05		Notes:  A. All measurements made with a load resistance of R=4.7x10 <sup>6</sup> ohms.				
Shielded background counts/min. (Average)	35						
Useful life, counts. (Average)	> 10 <sup>9</sup>						
Temperature coefficient volts/C <sup>o</sup> . (Average)	2ـ0						
Temperature coefficient volts/C°. (max).	0.3						
Operating range of temperature C <sup>0</sup> .	-55to+40						
Filling Efficiency, Y source. (approx).	100%						
Count rate for 1.0 milli-roentgen/ hr. Radium source. Counts/min.	5600						

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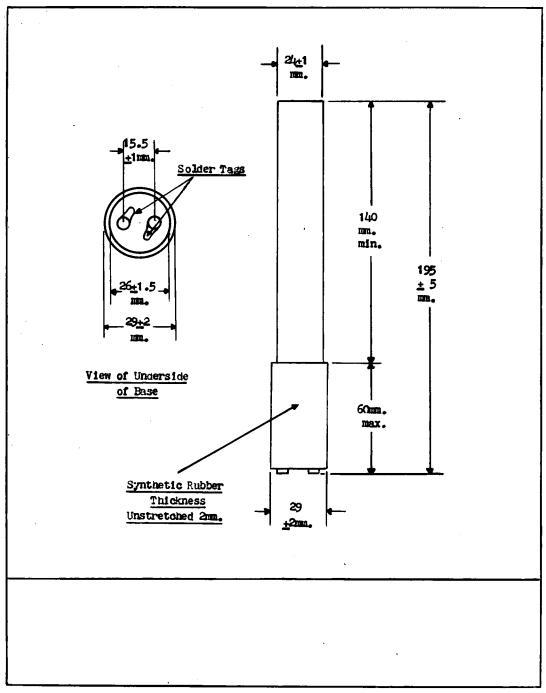
TESTS

To be performed at least 4 weeks after manufacture, in addition to those applicable in K1001.

-		in K1001.			
[	Test Conditions	Test	Limits		No.
<u>_</u>			Min.	Max.	Tested
a	As in K1001/52.3	Plateau length, L volts	90	-	100% or 3
	Input sensitivity 0.5 volts	Flateau slope, Si/volt	-	0.15	100% or 3
Ъ	às at (a) above	Threshold voltage V <sub>T</sub>	300	370	100% or S
0	Input sensitivity 0.5 V, applied voltage V <sub>W</sub> , other conditions as stated in K1001/5E.3.1 and K1001/5E.7.	Shielded background count rate/minute. Limits are irrespec- tive of statistical corrections.	25	50	100% or s
đ	As (c) above.	Saturation current MA.	4.5		T.A.
e	Counter inserted in Neoprene Jacket in Standard atmosphere (15-25°C. Less than 60% relative humidity) Measure at P.D. of 100 volts.	Resistance between pins, ohms.	1010	-	T.A.
f	Counter immersed in water (Base upwards) to within 1/2-in. of base.	Resistance between Catnode and outside of envelope, onms.	10 <sup>9</sup>	•	T.A.
g	See K.113, clause 27(c).	Vibration test. Counter shall be undamaged and operate satisfactorily after this test.			T.A.
h	Counter shall pass satisfactorily the climatic tests specified in K.110 and a further five damp heat cycles.				T.A.

NOTE:- All tests shall be made using a counter load resistance of 4.7 x 106 chms.

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CV.2287/1/3