MINISTRY OF SUPPLY - A.E.R.E.

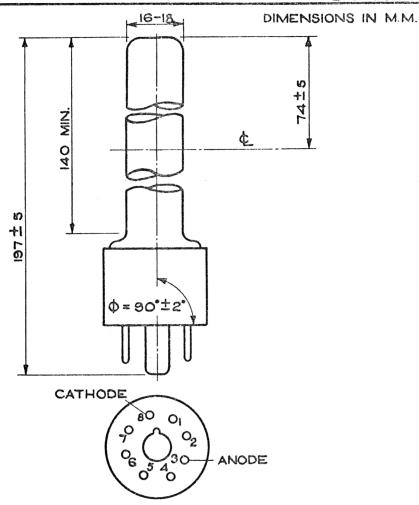
VALVE ELECTRONIC

Specification MOS/CV.494. Issue 4 Dated 20.4.53. To be read in conjunction with K1001 ignoring clauses 10, 11 and 12.			SECURITY Specification Tube RESTRICTED UNCLASSIFIED					
indicates a change								
TYPE - Tube, counter, G.M., thin wall immersion, beta-genus. PROTOTYPE - 20th Century Electronics B12 EFFECTIVE ANODE LENGTH - 120 m.m. WALL THICKNESS - (Glass) 40 mgm/cm ²			MARKING As in K1001/4. Additional markings:- Serial number, and operating voltage in the form V _W *					
			PACKING As in K1005					
RATING	timenten er er en		Note	PASE 10				
Operating Volts, V _W volts (Average at 20°C ₂)	11	00	$\mathbf{g}_{\mathbf{a}}$	Pin	Electrode			
Plateau length volts. (Average)	220			3 8	Anode Cathode			
Plateau Slope %/volt. (Average)	0.06			DIMENSIONS See page 3 Notes				
Shielded background counts/min. (Average)	26							
Useful life, counts. (Average)	2,5x10 ⁸							
Temperature coefficient volts/C ⁰ (Average)		1		A. The working voltage is to be selected by the man- ufacturer within the limits stated, and shall be a multiple of 5.				
Temperature coefficient volts/CO (Max.)	1.	.5						
Operating range of temperature °C.	-2000	50		B. All m	easurements made			
Filling Efficiency, source. (Approx.)	10	OGS		with a load resistance of R=4.7 x 106 ohms.				

 $\underline{\text{TESTS}}$ To be performed in addition to those applicable in K1001.

Test Conditions		Test	Limits Min Max		No. Tested
å	As in K1001/55.3.1 Input sensitivity 0.25 volts	Plateau length, L min. volts Plateau slope, S%/volt	200	0.1	10CF or S
b	As at (a) above	Operating voltage V _W	1025	1175	100% or S
G	Input sensitivity 0.25 V, applied voltage V _W , other conditions as stated in K1001/5E.3.1 and K1001/5E.7.	Shielded background count rate/minute. Limits are irrespective of statistical corrections.	19	32	100% er S

NOTE - All tests shall be made using a counter load resistance of 4.7×10^6 ohms. $\pm 2\%$.



- I. GLASS BULB DIAMETER SHALL AT ALL POINTS BE LESS THAN THAT OF THE I.O. BASE.
- 2. GLASS BULB DIAMETER SHALL NOT EXCEED 34.54mms. (1.360") ABOVE A POINT 32.08mms. (1.263") UPWARDS FROM THE BOTTOM OF THE BASE EXCLUDING PINS AND SPIGOT.
- 3. GLASS DIAMETER SHALL NOT EXCEED 20.62mms.(0.812") ABQVE A POINT 52.37mms. (2.062") UPWARDS FROM THE EXTREME END OF THE SPIGOT.
- 4. ♦= ANGLE BETWEEN ¢ OF GLASS BULB AND BOTTOM OF BASE
- 5. DIMENSION 7415 IS A TYPE APPROVAL TEST ONLY.