MINISTRY OF AVIATION -DLRD/RRE

VALVE ELECTRONIC

CV6167

Specification MOA/CV 6167 Issue 1. Dated 1st November 1965 To be read in conjunction with K1001, BS448 and BS 1409	SECURITY Specification: Unclassified Valve: Unclassified

Indicates change

TYPE OF VALVE - Cathode Ray Tube
DEFLECTION - Magnetic
FOCUS - Magnetic
GUN - Tetrode
BULB - Glass, Internal Conducting Coating
SCREEN - 009 (Aluminium backed)
PROTOTYPE - CV6113, T963Z, 12/48H2MA.

MARKING

See K1001/4

BASE

See BS448, B12A with short metal shell or approved alternative

SIDE CONTACT

See BS448. CT8

NATO STOCK NO.

~~5960-037-99-4407~~
5960-99-837-4407

Amdt 1

RATINGS, CHARACTERISTICS, CAPACITANCES AND CONNECTIONS

For details see latest issue of CV 6113

TESTS

The tests required by specification CV 6113 shall be performed except as follows:-

K1001 Ref	TEST	TEST CONDITIONS	AQL %	Insp. Level	Sym-bol	Limits Min.	Limits Max.	Units
5A.5.7	Focus Astigmatism of undeflected focused spot.	As for CV6113 but associated Note 5 amended to read as follows:-		100%		-	20	%

Note 5:- Measure maximum and minimum axis at tube centre.

$$\text{Limits} = \frac{\text{Difference}}{\text{Max}} \times 100$$

K1001 Ref.	TESTS	TEST CONDITIONS	AQL %	Insp. Level	Sym-bol	Limits		Units
						Min.	Max.	
5A.7.2.2	Line Width	Pulsed line 250 mm Pulsed width = 100 µS Focus as in Astigmatism test. Modulation pulses and deflection waveform Note 9	-	100%	-	-	0.25	m.m.
5A.5.1.1 and 5A.5.1.2	Screen Efficiency	V_{a2} = 9 kV Vg adjusted to give a light intensity of 0.12 candela using a focused raster of convenient size viewed through Wratten No. 22 filter.		100%	I_b	-	12	µA
5A.17	Persistance measured as a decay time to 0.014 foot-lamberts	No focus field, Vg adjusted to give screen luminance of 2 foot-lamberts viewed through Wratten No. 22 filter or equivalent. Linear raster of convenient size, uniform screen excitation. Excitation time = 120 secs approx.	2.5	I		208	-	secs

NOTE:- To allow for screen temperature coefficient the minimum decay time limit at any temperature between 15°C and 30°C which is "n" °C above 15°C is:-

$$208\ (1-0.04)^{n} \text{ seconds}$$

ELECTRONIC VALVE SPECIFICATIONS
SPECIFICATION MOA/CV 6167.
ISSUE 1. DATED 1st NOVEMBER, 1965

AMENDMENT NO.1

Page 1. NATO Stock No.

Amend NATO Stock No. to read: "5960-99-037-4407"

T.V.C. for R.R.E.

May 1966

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21 VGL

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