MINISTRY OF SUPPLY - DLRD/RRE

VALVE ELECTRONIC **CV5133**

Specification MOS/CV 5133 Issue 1 dated 15.4.58 To be used in conjunction with K.1001 excluding clauses 5.2; 5.8; 7.2.	SECURITY Specification: Unclassified Valve: Unclassified

TYPE OF VALVE - Non Linear Stabilising Element

ENVELOPE - Glass

PROTOTYPE - Atlas 5-8 watt 230 v. Pygmy Lamp

RATING
All limiting valves are absolute

		Note
Resistance with 1 volt applied across element (ohms)	833	
Resistance with 4 volts applied across element (ohms)	1380	
Resistance with 16 volts applied across element (ohms)	2286	
Resistance with 64 volts applied across element (ohms)	3764	

TYPICAL OPERATING CONDITIONS

This valve is intended to be used as a stabilising element in electronic oscillators, or in non-linear circuits such as voltage sensitive bridges.

The law followed is approximately

$V = KI^n$

where V is expressed in Volts
I is expressed in Amps.
K is (approximately) 2.3×10^4
n is (approximately) 1.55

MARKING

See K.1001/4

BASE

Bayonet Cap B22/22

DIMENSIONS

See Drawing, Page 2

Dimension (mm)	Min	Max
C Diameter	27	29
D Overall Length	53	59

MOUNTING POSITION

Any

CV5133

TESTS

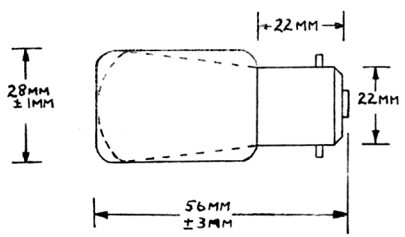
To be performed in addition to those applicable in K.1001
Tests shall be performed in the specification order unless otherwise agreed with the inspecting authority.

K1001 ref.	Test	Test Conditions	AQL %	Insp. Level	Sym-bol	Limits Min.	Limits Max.	Units
	Current	Voltage applied across element. Note 1.						
		(a) 1 volt	100%		I	1.02	1.38	mA
		(b) 4 volts	100%		I	2.46	3.34	mA
		(c) 16 volts	100%		I	5.95	8.05	mA
		(d) 64 volts	100%		I	14.25	20.0	mA

NOTE

1. Ambient temperature to be between 15°C and 20°C.

OUTLINE DRAWING



CV5133

TYPICAL CHARACTERISTICS.