MINISTRY OF SUPPLY (S.R.D.E.)

VALVE ELECTRONIC CV229

Specification MOS/CV229/Issue 6 Dated:- 24.5.50 To be read in conjunction with K1001, ignoring clauses 4.1.1(a), 5.2, 5.8, 6.0 and 7.1	SECURITY Specification: ~~Restricted~~ Unclass Valve: ~~Restricted~~ Unclass

→ indicates a change

TYPE OF VALVE:- High mu triode CATHODE:- Directly heated ENVELOPE:- Glass PROTOTYPE:- E1336 (selected)	MARKING See K1001/4 Additional marking:- Lot No. Colour Code (Note B)

RATING		Note	BASE None
Filament voltage (V)	1.5		
Max.filament current (A)	0.15		
Max.anode voltage (V)	100		
Mutual conductance (mA/V)	0.8	A	
Amplification factor	32	A	
Anode impedance (ohms)	40,000	A	

DIMENSIONS AND CONNECTIONS
See Fig. 1, Page 4

Dimensions	Min	Max
Overall length mm	-	33
Diameter mm	-	10
Pip length mm	-	6

PACKAGING
See K1005

NOTES

A. Measured at Va = 100
Vg = 0.

B. A RED MARK shall appear adjacent to the anode lead and the numbering shall be in RED

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions			Test	Limits		% Tested	Notes
	Vf	Va	Vg		Min.	Max.		
a	1.5	-	-	Filament Current (A)	-	0.15	0.1% (10)	
b	1.7	95	-	Oscillator Sensitivity at three loading points (peak to peak volts.)	See Note 2		100%	1.2
	Ra=20,000 ohms Rg= 3,300 ohms							
c	1.5	90	-	Oscillator Sensitivity at max. loading point (peak to peak volts)	See Note 2		100%	1.2
	Ra=20,000 ohms Rg= 3,300 ohms							
d	0	140	0	Leakage (μA), Anode to all	-	0.75	100%	
	0	0	140	Grid to all	-	0.75	100%	
e	1.5	140	-2	Gas Current (μA)	-	1.0	100%	3

NOTES

1. The grid resistor shall be returned to filament positive.
2. These tests shall be carried out in apparatus approved by the type-approving authority who shall define the loading points and sensitivity calibration for individual gears and arrange for periodical checking against standard valves.
3. Maximum time delay 0.75 sec.

CV229

SPECIAL REQUIREMENTS.

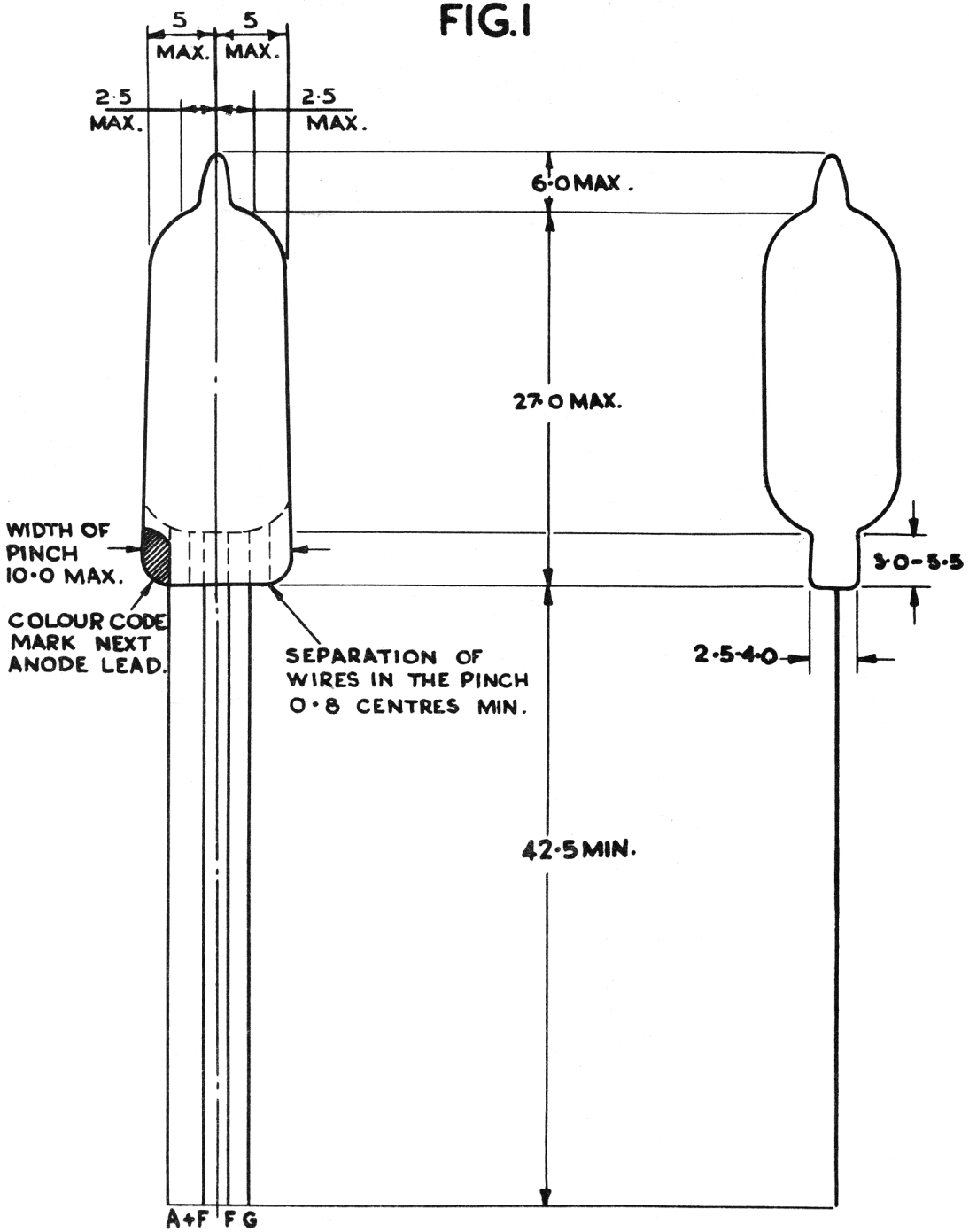
(1) The valves are required for embodiment into receivers and for short period operation. They are not required for replacement or normal life.

(2) The valves are required to have a long life in storage and shall meet the requirements of these tests after a holding period of not less than one month from the date of initial test.

(3) Owing to the mechanical requirements of the valves, the materials used and the methods of manufacture shall conform to the Material and Inspection Schedules. These Schedules shall form part of this Specification, and may be obtained from C.I.E.M.E.

(4) A description of the Production Details, which may be obtained through the type-approving authority or their representative, is issued as an appendix to this Specification. This shall not be regarded as a rigid specification, but the representative of the type-approving authority shall be informed within twenty-four hours, of any deviations from the methods described therein, and the "lot" numbers concerned. The type-approving authority may call for samples, for comparison with the original samples for which type-approval has been given.

FIG.1



ALL DIMENSIONS IN MMS.
SHAPE SHOULD BE APPROX. AS DRAWING.