VALVE ELECTRONIC

# CV.8279

MINISTRY OF AVIATION - D.L.R.D./R.A.E.

| Specification: M.O.A./CV8279<br>Issue No. 1 Dated July 1963<br>To be read in conjunction with K 1001 | SECURITY<br>Specification: Unclassified<br>Valve: Unclassified |
|---|---|

→ indicates a change

| | | | |
|---|---|---|---|
| TYPE OF VALVE: | Gas filled diode | | MARKING<br>See K.1001/4<br>CV number, T.A. letters, Factory and Date code, only required. |
| CATHODE: | Cold | | |
| ENVELOPE: | Subminiature, Glass | | |
| PROTOTYPE | NT2. CV2213 | | |
| Rating<br>( All limiting ratings are absolute) | | | Base<br>See drawing on page 2 |
| Max. striking voltage | (V) | 85 | DIMENSIONS<br>See drawing on page 2 |
| Max. anode current | (mA) | 1.7 | |
| Mean voltage drop across valve operating at 0.5mA | (V) | 60 | CONNEXIONS<br>See drawing on page 2<br>Cathode marked with a blue spot. |
| Regulation 0.3mA to 0.5mA | (V) | 3 | |
| Life expectancy (Min) | (Hrs) | 50 | |

Joint Service Catalogue No. :- 5960-99-037-3424

## TESTS



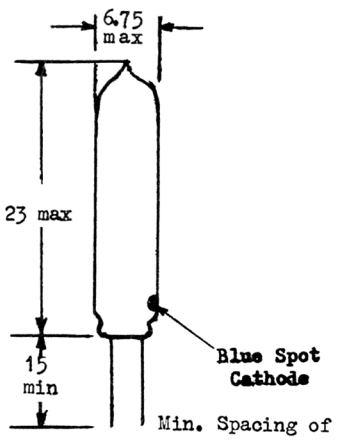
To be performed in addition to those applicable in K1001

| | TEST | TEST CONDITIONS | INSP. LEVEL | SYMBOL | LIMITS MIN | LIMITS MAX | UNITS | NOTES |
|---|---|---|---|---|---|---|---|---|
| (a) | Striking Voltage | Increase voltage applied until current flows | 100% | $V_s$ | - | 85 | V | |
| (b) | Voltage drop across valve | Cathode current adjusted to 0.5 mA | 100% | - | 49 | 65 | V | |
| (c) | Illumination | Cathode current adjusted to 1.0 mA | 100% | | - | - | - | 1 |
| (d) | Regulation change in maintaining voltage | With conditions as for Test (b) the Cathode Current shall be progressively reduced from 0.5 mA to 0.3 mA | 6 Per Week | | - | 3 | V | |
| (e) | Oscillation | Vary $I_a$ from 0.2 to 1.7 mA | 100% | | - | 10 | mV P/P | 2 |

### NOTES

1. Cathode to exhibit substantially 100% activation.
2. The Oscillation Search Test Circuit is given on Page 3.

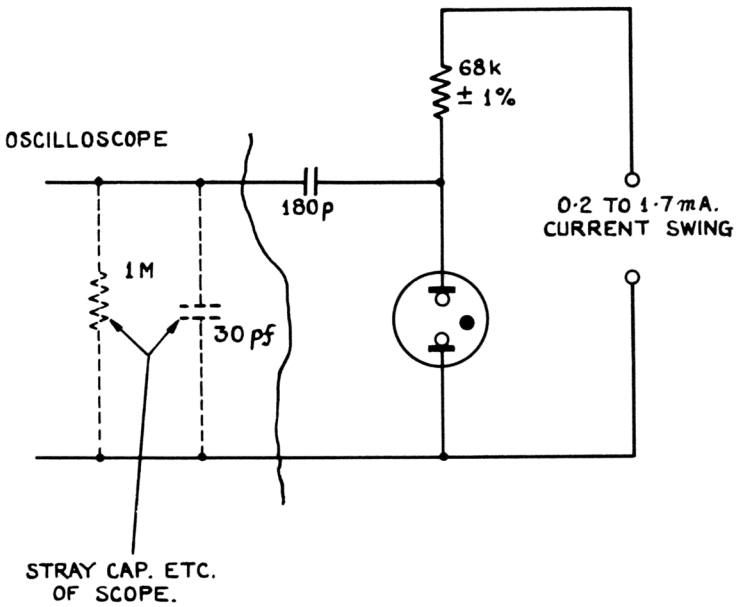
### OUTLINE DRAWING




Min. Spacing of Leads = 1.5.

The leads shall be flexible, tinned, copper clad nickel iron wire of 0.34 to 0.48 diameter

All dimensions in m.m..




CIRCUIT FOR OSCILLATION SEARCH TEST.