VALVE ELECTRONIC **CV2279**

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

Specification: MOS/CV2279 Issue 3 - Dated 4.5.55 To be read in conjunction with K1001	SECURITY Specification: Unclassified Valve: Unclassified
→ indicates a change	

TYPE OF VALVE: Germanium Crystal for use as modulator

FREQUENCY RANGE: Up to 100Mc/s

CONSTRUCTION: To be pan-climatic within the temperature range -40°C to +100°C

DIMENSIONS: The dimensions shall be in accordance with the drawing on Page 3

MARKING

Each crystal valve will be marked with the number CV2279 and with the polarity which shall be indicated by a "+" and "-" sign or by marking the positive end red. ←

PACKING

Packing shall be in accordance with K1005 except that protection against RF fields is not required. Each set of four valves shall be placed in a polythene envelope which shall be labelled "CV2279, (4 matched crystal valves) - Quantity 1 " ←

→ **NOTES:** A. These valves will be supplied in matched quads which will conform to tests (a) and (b).

→ B. THE NUMBER CV2279 REFERS TO 4 MATCHED VALVES, AND NOT TO A SINGLE VALVE.

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CV2279

TESTS

To be made in addition to those applicable in K1001

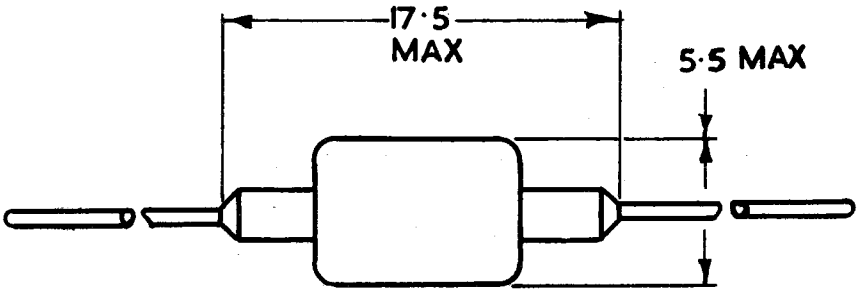
	Applied Voltage	Test	Limits Min.	Limits Max.	No. Tested	Note
a	Adjust for 5mA Forward Current	Voltage Range for Batch (V)	+0.5	+0.8	100%	1
b	Adjust for 5mA Forward Current	Voltage Spread for group of 4 crystals within the limits obtained in (a) (V)	-	0.1	100%	1
c	-1	Reverse Current (μA)	-	8.0	100%	1
d		Capacitances (pF) (1) End to End (2) Either end to earth with the other end earthed	- -	1.0 2.5	T.A. T.A.	2

NOTES:

1. Tests to be made at a temperature of 20°C ±5°C.

2. Measurements to be made with the crystal pressed along an earthed length of right angle metal.

CV 2279



ALL DIMENSIONS IN MILLIMETRES.