

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

Specification: MOS/CV2279 Issue 3 - Dated 4.5.55 To be read in conjunction with K1001	<u>SECURITY</u> <u>Specification</u>   <u>Valve</u> Unclassified   Unclassified
→ indicates a change	
<u>TYPE OF VALVE:</u> Germanium Crystal for use as modulator  <u>FREQUENCY RANGE:</u> Up to 100Mc/s  <u>CONSTRUCTION:</u> To be pan-climatic within the tempera- ture range -40°C to +100°C  <u>DIMENSIONS:</u> The dimensions shall be in accordance with the drawing on Page 3	<u>MARKING</u>  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.  <u>PACKING</u>  Packing shall be in accordance with K1005 except that protec- tion 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.

CV2279/3/1

Z.9420.R.

## CV2279

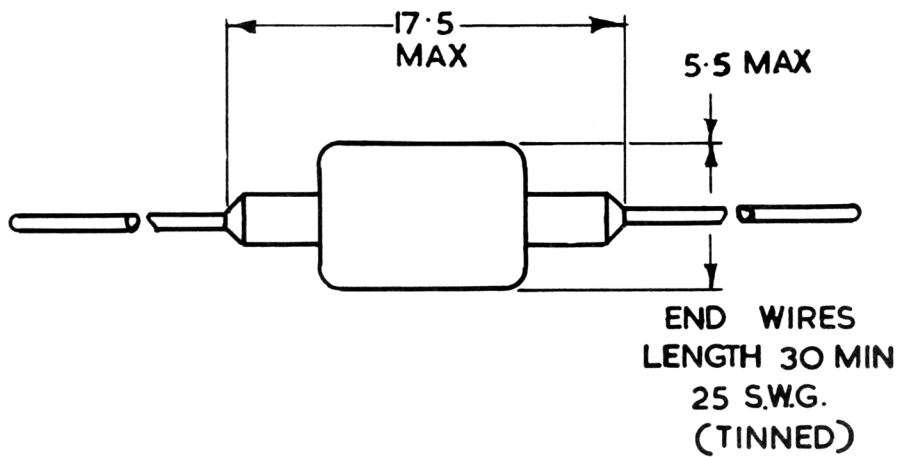
TESTS

To be made in addition to those applicable in K1001

Applied Voltage		Test	Limits		No. Tested	Note
			Min.	Max.		
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 ( $\mu$ A)	-	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  $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ .
  2. Measurements to be made with the crystal pressed along an earthed length of right angle metal.

CV2279/3/2



ALL DIMENSIONS IN MILLIMETRES.