

Specification MOS/CV2171/Issue 2 Dated 4.3.59 To be read in conjunction with BS448, BS1409 and K1001 ignoring clause 5.8.	<div style="text-align: center;"><u>SECURITY</u></div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <u>Specification</u>            UNCLASSIFIED         </div> <div style="width: 45%;"> <u>Valve</u>            UNCLASSIFIED         </div> </div>
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—————→ Indicates a change

<u>TYPE OF VALVE</u> :- Noise diode for frequencies up to 500 Mc/s. <u>CATHODE</u> :- Directly heated, tungsten <u>ENVELOPE</u> :- Glass, unmetallised <u>PROTOTYPE</u> :- VX3120				<u>MARKING</u>  See K1001/4	
<u>RATING</u>			Notes	<u>BASE</u>  B7G/1.1.	
Normal filament voltage	(V)	3.7-4.4	C	Pin	Electrode
Mean filament current at Vf = 3.7V	(A)	0.58			
Mean saturated anode current at Vf = 3.7V	(mA)	5	A	1	Anode
Mean filament current at Vf = 4.4V	(A)	0.64		2	(Getter support)
Mean saturated anode current at Vf = 4.4V	(mA)	20	B	3	Filament
Max. filament voltage	(V)	4.8		4	Filament
Max. anode voltage	(V)	200		5	Anode
Max. saturated anode current	(mA)	20		6	-
Max. anode dissipation	(W)	2		7	(Filament Spring)
<u>CAPACITANCES (pF)</u> (with external shield)				<u>DIMENSIONS</u>  See BS448, B7G/2.1. Size R + No 2.	
Ca.f		0.8		<u>PACKAGING</u>  See K1005	
Ca.all		2.3		NOTES:- See page 2	

To be performed in addition to those applicable in K1001

	Test Conditions		Tests	Limits		No. Tested
	Vf (V)	Va(V)		Min.	Max.	
(a)	4.0		If (A)	0.57	0.65	100% or S
(b)	4.0	100	Ia (mA)	6	16	100%

NOTES

- A:- The design of the valve shall be such that the saturated emission of 5 mA shall be obtained with Va not greater than 40 volts.
- B:- At a saturated emission of 20 mA the life of the valve is reduced to 100-300 hours.
- C:- The value of the saturated anode current is regulated by variation of the filament voltage. With a 6.3 volt filament supply a series variable resistor of 10 ohms max. will be suitable for most purposes.

ELECTRONIC VALVE SPECIFICATIONS

Specification MOA/CV 2171, Issue 2, Dated 4.3.59

Amendment No.1.

Page 1 Dimensions

After "See BS448. B7G/2.1" insert "Size Ref. No.2."

T.V.C.  
for R.R.E.

August, 1962

(40623)

✓ HBS  
26/9/62