

Specification MOS/CV2171/Issue 2 Dated 4.3.59 To be read in conjunction with BS448, BS1409 and K1001 ignoring clause 5.8.	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

→ 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>			<u>BASE</u> B7G/1.1.	
Normal filament voltage (V)	3.7-4.4	C	<u>Pin</u>	<u>Electrode</u>
Mean filament current at Vf = 3.7V (A)	0.58	A		
Mean saturated anode current at Vf = 3.7V (mA)	5	A	1	Anode (Getter support)
Mean filament current at Vf = 4.4V (A)	0.64		2	Filament
Mean saturated anode current at Vf = 4.4V (mA)	20	B	3	Filament
Max. filament voltage (V)	4.8		4	Anode
Max. anode voltage (V)	200		5	-
Max. saturated anode current (mA)	20		6	(Filament Spring)
Max. anode dissipation (W)	2		7	
<u>CAPACITANCES (pF)</u> (with external shield)			<u>DIMENSIONS</u> See BS448. B7G/2.1. <i>Size Ref 9102</i>	
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.