

SPECIFICATION MOS/CV.1971 ISSUE NO.1 DATED 8.8.58 To be read in conjunction with K1001, BS.448 and BS.1409.		SECURITY SPECIFICATION VALVE Unclassified Unclassified	
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→ Indicates a change.

TYPE OF VALVE: Miniature Vari- μ H.F. Pentode. CATHODE: Directly Heated. ENVELOPE: Glass. PROTOTYPE: CV 785.			MARKING See K1001/4.	
			BASE BS.448/B7G.	
RATINGS (All limiting values are absolute)			CONNECTIONS	
			PIN ELECTRODE	
Filament Voltage (V) 1.4 Filament Current (mA) 50 Max. Anode Voltage (V) 100 Max. Screen Voltage (V) 75 Max. Cathode Current (mA) 6.5	NOTES	1 Filament - ve, f-ve+ + Suppressor g3+sh + shield 2 Anode a 3 Screen Grid g2 4 No connection NC 5 Filament - ve, f-ve+ + Suppressor g3+sh + shield 6 Control grid g1 7 Filament + ve f+ve		
TYPICAL OPERATING CONDITIONS			DIMENSIONS See BS.448/B7G/2.1 Size Ref. No.2.	
CAPACITANCES (pF) NOTE A			DIMENSIONS MIN. MAX.	
Cag (max.) 0.01 C out 7.5 C in 3.6			A Seated height - 47.5 C Diameter 16.0 19.0 D Overall length - 54.5	
			MOUNTING POSITION Any.	
NOTES A. Measured with a close fitting metal shield connected to the negative end of the filament.				

TESTS

To be performed in addition to those applicable in K1001.

CV.1971

	Test Conditions				Test	Limits		No. Tested	
						Min.	Max.		
a	See K.1001 App.III. Measured on a 1 Mc/s bridge with valve mounted in a fully shielded socket. Valve screened.				<u>Capacitances. Note 1</u>		-	0.01	T.A.
					(1) C _{ag}	(pF)			
					(2) C _{out}	(pF)			
					(3) C _{in}	(pF)	5.3	9.7	6 per week
							2.7	4.7	
b	V _f	V _a	V _{g2}	V _{g1}	I _f	(mA)	44	56	100%
	1.4	-	-	-					
c	1.4	90	67.5	-2	-I _{g1}	(μA)	-	1.0	100%
d	1.4	90	67.5	0	I _a	(mA)	2.3	4.7	100%
e	1.4	90	67.5	0	I _{g2}	(mA)	0.65	2.15	100%
f	1.4	90	67.5	0	g _m	(mA/V)	0.66	1.13	100%
g	1.4	90	67.5	0	g _m	(mA/V)	0.57	-	100%
h	1.4	90	67.5	-14.5	I _a tail	(μA)	10	250	100%
j	The valve shall be inserted in at least one of the CV.1971 socket positions in the Amplifier Unit Type 455, 10U/16585 (part of Transmitter T.1946).				<u>Functional Equipment Test</u>		The equipment shall operate satisfactorily		T.A.

CV.1971/1/2