

ELECTRONIC VALVE SPECIFICATIONS.

SPECIFICATION M.O.A./CV 5961 ISSUE 1. DATED 1.9.63.

AMENDMENT. No. 1.

Page 2 Group B. Microphony Test.

- (a) In the column headed "LIMITS", delete "to be agreed" and substitute " - " (dash) in Min column and "50" in Max. Column.
- (b) In the column headed "UNITS", amend "mV pk" to read "mV pk to pk"

August, 1963.

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

N. 190324

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOA/CV5961, ISSUE 1, DATED 1.9.62

AMENDMENT No. 2

Page 2 GROUP 'C', Capacitances

Against 'C out' in the columns headed 'LIMITS' 'Min' and 'Max', delete '3.2' and '4.0' and substitute '3.4' and '4.2'.

June, 1964.

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

N.222079

Specification M.O.A./CV. 5961 Issue 1 Dated: 1.9.62 To be read in conjunction with K1001, BS.448 and BS.1409	<u>SECURITY</u> <u>Specification</u> <u>Valve</u> Unclassified Unclassified
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<u>TYPE OF VALVE:</u> Sub-miniature R.F. Pentode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Glass, Metallised <u>PROTOTYPE:</u> CV.2371 Selected	<u>MARKING</u> See K1001/4, except that the valve shall be marked with the CV No., Factory and date code only.
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<u>RATING</u> (All limiting ratings are absolute)	Note	<u>BASE</u> BS448/B5A with flexible leads.
Filament Voltage (V) 1.25 Filament Current (mA) 25 Max. Anode Voltage (V) 100 Max. Screen Voltage (V) 100 Anode Current (mA) 1.7 Screen Current (mA) 0.45 Mutual Conductance (mA/V) 0.95 Anode Impedance (MΩ) 1.6	A A A A	<u>CONNECTIONS</u> <u>Pin</u> <u>Electrode</u> 1 a 2 g2 3 f(-), M 4 g1 5 f(+), g3 See Note C

<u>CAPACITANCE (pF)</u>		<u>DIMENSIONS</u> See Drawing Page 3
c _{a,g1} (Max.)	0.01	
c _{out} (Nom.)	3.6	
c _{in} (Nom.)	3.1	

<u>NOTES</u>
A. Measured at V _a = V _{g2} = 67.5 V _{g1} = 0
B. Sharp bends in valve leads must not be made closer than 1.5 mm. to the glass seal and soldered joints in the leads must not be made closer than 5.0 mm. to the seal.
C. Lead 1 shall be indicated by a red dot.
D. The Joint Service Catalogue Number is 5960-99-037-3166

TESTS

CV5961

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To be performed in addition to those applicable in K1001

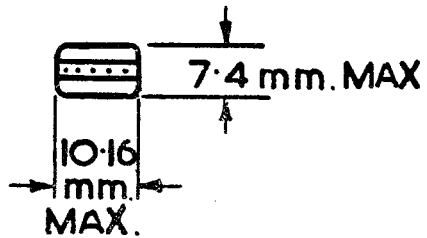
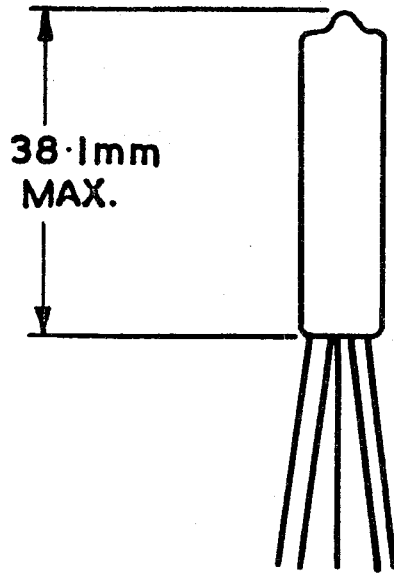
TEST CONDITIONS:- Unless otherwise stated:-

$V_f = 1.25 \text{ V}$, $V_a = 67.5 \text{ V}$, $V_{g2} = 67.5 \text{ V}$, $V_{g1} = 0$

TEST	TEST CONDITIONS	INSP. LEVEL	A.Q.L. (%)	Symbol	LIMITS		UNITS
					Min.	Max.	
<u>GROUP A</u>							
Reverse Grid Current	$-V_{g1} = 1.5\text{V}$	100%	-	$-I_{g1}$	-	0.5	μA
<u>GROUP B</u>							
	<u>Combined A.Q.L.</u>		Note 3				
Filament Current		II	0.65	I_f	22	28	mA
Anode Current (1)		II	0.65	$I_{a(1)}$	1.25	2.25	mA
Screen Current		II	0.65	I_{g2}	0.3	0.6	mA
Anode Current (2)	$-V_{g1} = 6.0 \text{ V}$ Note 1	II	0.65	$I_{a(2)}$	-	20	μA
Mutual Conductance (1)		II	0.65	$g_{M(1)}$	0.70	1.2	mA/V
Mutual Conductance (2)	$V_f = 1.0 \text{ V}$	II	0.65	$g_{M(2)}$	0.60	-	mA/V
Microphony	$R_L = 10\text{K. Ohms}$ Note 2	II	1.0	$V_a \text{ A.C.}$	to be agreed		mVpk
<u>GROUP C</u>							
Capacitances	To be measured on a 1 Mc/s R.F. Bridge in a fully shielded socket. Valve screened.	IC	6.5	C_{in}	2.7	3.5	pF
				C_{out}	3.2	4.0	pF
				C_{ag1}	-	0.01	pF

NOTES

1. A 1 Megohm protective resistance in series.
2. To be tested in the Microphony Impact Tester in K1001 App (S.S.C. Paper No. 431 refers). A low pass filter may be included in the circuit providing it does not cut off at a frequency less than 3 kc/s., the measurement to be made after a maximum delay of 2.0 secs. V_a may be taken to equal V_{ab} .
3. A combined AQL of 1% shall be applied to the first four tests.



LEADS LENGTH 38 mm. MIN.