MINISTRY OF AVIATION DLRD/RAE

VALVE ELECTRONIC **CV 5961**

Specification M.O.A./CV.5961
Issue 1A. Dated 31.3.65
To be read in conjunction with K1001, BS.448 and BS.1409

SECURITY	
Specification	Valve
Unclassified	Unclassified

TYPE OF VALVE: Sub-miniature R.F. Pentode

CATHODE: Directly heated

ENVELOPE: Glass, Metallised

PROTOTYPE: CV.2371 Selected

MARKING

See K1001/4, except that the valve shall be marked with the CV No., Factory and date code only.

RATING
(All limiting ratings are absolute)

			Note
Filament Voltage	(V)	1.25	
Filament Current	(mA)	25	
Max. Anode Voltage	(V)	100	
Max. Screen Voltage	(V)	100	
Anode Current	(mA)	1.7	A
Screen Current	(mA)	0.45	A
Mutual Conductance	(mA/V)	0.95	A
Anode Impedance	(MΩ)	1.6	A

BASE

BS448/B5A with flexible leads

CONNECTIONS

Pin	Electrode
1	a
2	g2
3	f(-), M
4	g1
5	f(+), g3

See Note C

CAPACITANCE (pF)

c_a, g1	(Max.)	0.01
c_{out}	(Nom.)	3.6
c_{in}	(Nom.)	3.1

DIMENSIONS

See Drawing 3

NOTES

A. Measured at Va = Vg2 = 67.5 Vg1 = 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

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To be performed in addition to those applicable in K1001

TEST CONDITIONS:- Unless otherwise stated:-

Vf = 1.25 V, Va = 67.5 V, Vg2 = 67.5 V, Vg1 = 0

TEST	TEST CONDITIONS	INSP. LEVEL	A.Q.L. (%)	Symbol	LIMITS		UNITS
					Min.	Max.	
GROUP A							
Reverse Grid Current	-Vg1 = 1.5V	100%	-	-Ig1	-	0.5	µA
GROUP B	Combined A.Q.L.		Note 3				
Filament Current		II	0.65	If	22	28	mA
Anode Current (1)		II	0.65	Ia(1)	1.25	2.25	mA
Screen Current		II	0.65	Ig2	0.3	0.6	mA
Anode Current (2)	-Vg1 = 6.0 V. Note 1	II	0.65	Ia(2)	-	20	µA
Mutual Conductance (1)		II	0.65	gM(1)	0.70	1.2	mA/V
Mutual Conductance (2)	Vf = 1.0 V	II	0.65	gM(2)	0.60	-	mA/V
Microphony	RL = 10K.Ohms Note 2	II	1.0	Va A.C.	-	50	mVpk to pk
GROUP C							
Capacitances	To be measured on a 1 Mc/s R.F. Bridge in a fully shielded socket. Valve screened.	IC	6.5	Cin	2.7	3.5	pF
				Cout	3.4	4.2	pF
				Cagl	-	0.01	pF

NOTES

1. A 1 Megohm protective resistance in series.

2. Readings are to be taken on microphony testing equipment as described in K1001 Appendices X and XII. 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.
   Va may be taken to equal Vab. For Circuit Diagram see Page 4 Fig.2.

3. A combined AQL of 1% shall be applied to the first four tests.

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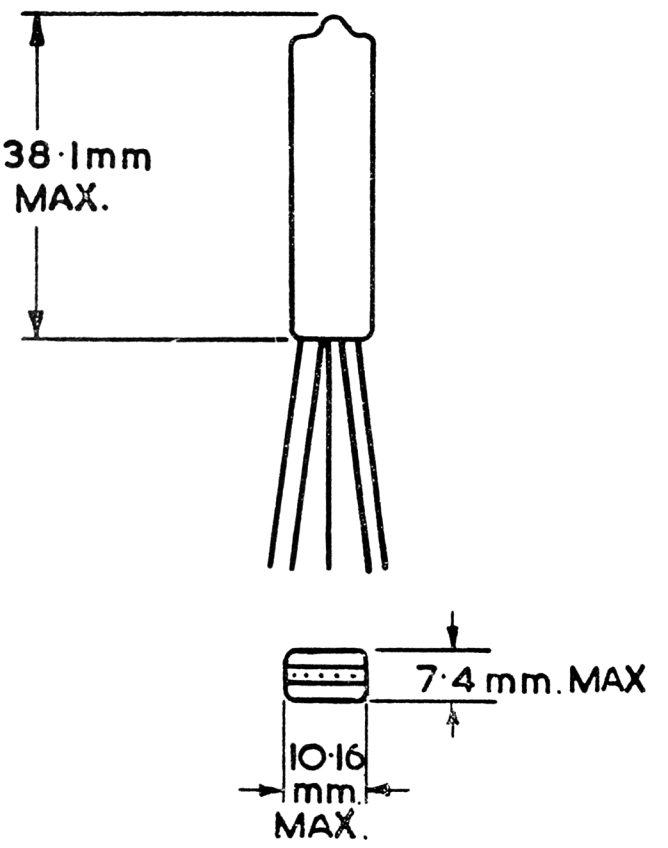
FIG 1



LEADS LENGTH 38 mm. MIN.

FIG. 2 MICROPHONY TEST CIRCUIT