MINISTRY OF SUPPLY, D.L.R.D./R.A.E.

VALVE ELECTRONIC

C.V.2466

SPECIFICATION M.O.S. CV.2466
ISSUE 1 DATED 15.6.59
To be read in conjunction with BS.448, BS.1409 and K1001

SECURITY

SPECIFICATION	VALVE
Unclassified	Unclassified

TYPE OF VALVE: R.F. Power Double Tetrode.
CATHODE: Indirectly Heated.
ENVELOPE: Glass, unmetallised.
PROTOTYPE: QQV02-6.

RATINGS
(All limiting values are absolute)

			NOTES
Heater Voltage (series)	(V)	12.6	
Heater Current (series)	(A)	0.3	
Heater Voltage (parallel)	(V)	6.3	
Heater Current (parallel)	(A)	0.6	
Max. Anode Voltage	(V)	250	
Max. Screen Voltage	(V)	200	
Max. Anode Dissipation	(W)	3.0	B.C
Max. Screen Dissipation	(W)	3.0	C
Max. Grid Dissipation	(W)	0.12	C
Max. Negative Grid Voltage	(V)	100	C
Max. Cathode Current	(mA)	50	C
Max. Peak Cathode Current	(mA)	160	C
Max. Intermittent Peak Cathode Current with A.M.	(mA)	260	C
Max. Heater Cathode Voltage	(V)	100	
Max. Operating Frequency	(Mc/s)	500	
Max. Bulb Temperature	(°C)	225	
Max. Pin Seal Temperature	(°C)	120	

CAPACITANCES (Note D)

C in (nom.)	(pF)	3.8	E
C out (nom.)	(pF)	0.95	E
Ca'-a" (max.)	(pF)	0.2	
Cg1'-Cg1" (nom.)	(pF)	0.45	

MARKING
See K1001/4

BASE
BS.448/B9A

CONNECTIONS

PIN	ELECTRODE	
1	Control grid (1)	g1'
2	Cathode + Shield	k + s
3	Control grid (2)	g1"
4	Heater	h
5	Heater	h
6	Anode (1)	a'
7	Screen Grid (Common)	g2
8	Anode (2)	a"
9	Heater C.T.	h(c.tap)

DIMENSIONS
BS.448/B9A/2.1 Size Ref. No.3.

	DIMENSIONS (mm)	MIN.	MAX.
A	Seated height	-	60.5
B	Diameter	14.0	22.2
C	Overall length	-	67.5

MOUNTING POSITION
Any.

NOTES

A. The valve is internally neutralized for push-pull operation. The neutralizing is optimized for the frequency range 300 to 500 Mc/s. Should the valve be required to operate at lower frequencies it may be found necessary to apply additional external neutralizing.

B. Cooling is by radiation and convection.

C. Each section.

D. Measured without external screen.

E. Sections operated in push-pull.

To be performed in addition to those applicable in K.1001

TEST CONDITIONS: Unless otherwise stated.

Vh (V)	Va (V)	Vg2 (V)	Vg1 (V)	
6.3	150	150	-3	Note 3

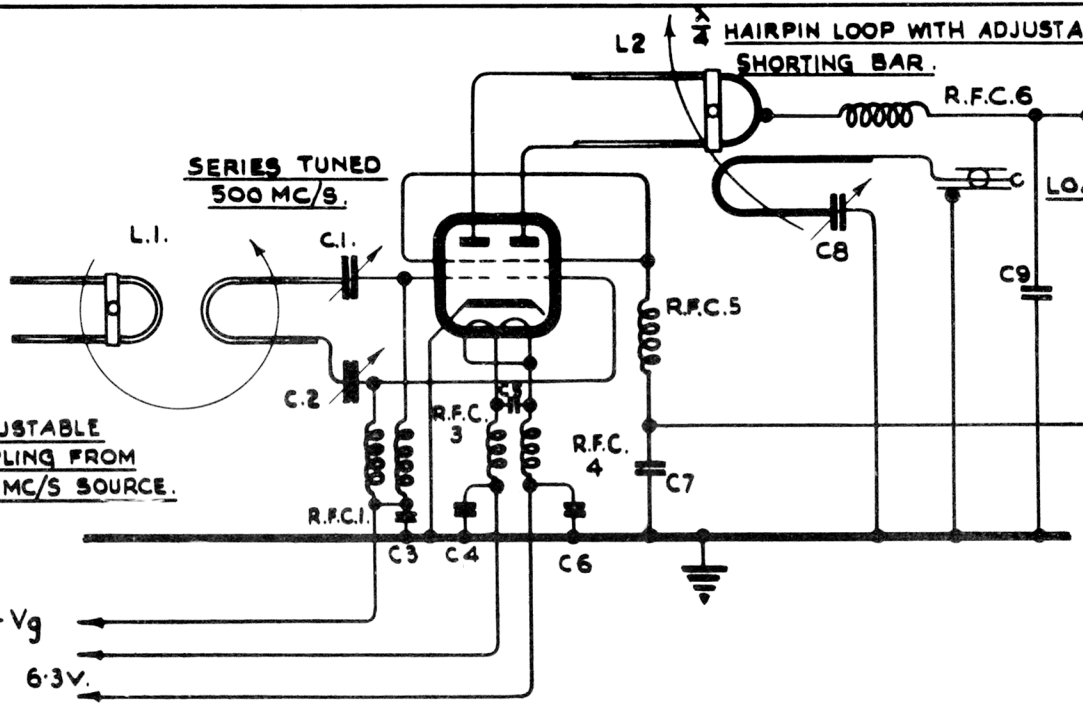
K.1001 REF.	TEST	TEST CONDITIONS	INSP. LEVEL	AQL %	SYMBOL	LIMITS MIN.	LIMITS MAX.	UNITS
	GROUP A							
	Heater Current	Note 1.	100%	-	Ih	0.54	0.66	A
5.3	Heater-Cathode Leakage Current	Vhk = ± 100V.	100%	-	Ihk	-	~~465~~ 45	µA
	Reverse Grid Current	Adj. Vg1 for Ia = 25mA. Notes 2 and 3.	100%	-	-Ig1	-	1.0	µA
	Anode Current (1)	Note 4.	100%	-	Ia	6	34	mA
	Screen Current	Note 4.	100%	-	Ig2	1.4	7.6	mA
	Anode Current (2)	Vg1 = -11V. Note 4.	100%	-	Ia tail	-	150	µA
	GROUP B							
A.III	Capacitances	Measured on a 1 Mc/s bridge with valve mounted in a fully shielded holder. Valve unscreened. Notes 3 and 6.	IC	6.5	Ca' a"	-	0.05	pF
					Cg1' g1"	0.3	0.6	pF
					Cout	1.5	1.9	pF
					Cin	5.0	7.8	pF
	Dynamic Operation at 500 Mc/s.	Vht = 180V. Vg1 = -25V each section. Ia = 55 mA. Note 5.	I	6.5	Pout	4.5	-	Watts
					Ig2 total	8.0	20.0	mA
					Ig1 total	-	4.0	mA

Amdt 1

NOTES

1. Parallel heater connections.
2. To be read after at least three minutes operation.
3. Each section.
4. Test each section separately, the other section being biased to -50 volts.
5. A typical circuit diagram is shown on page 3.
6. Pin connections:

TEST	HP	LP	E
Ca'a"	6	8	1,2,3,4,5,7,9,C.
Cg1'g"	1	3	2,4,5,6,7,8,9,C.
Cout	6	2,4,5,7,9,C.	8,1,3.
	8	2,4,5,7,9,C.	6,1,3.
Cin	1	2,4,5,7,9,C.	3,6,8.
	3	2,4,5,7,9,C.	1,6,8.



COMPONENT LIST.	
CIR. REF.	VALUE
C1. C2, C8.	TRIMMER 3-10 pf.
C3 C4 C6 C7 C9.	LEAD THRU 1000 pf.
C 5	470 pf
R.F.C. 1-6	L = λ/4
L.1.	HAIRPIN LOOP WITH ADJ. SHORTING BAR.
L.2.	λ/4 HAIRPIN LOOP WITH ADJ. SHORTING BAR.

TYPICAL - 500 MC/S R F AMPLIFIER OUTPUT STAGE.

C.V.2466

C.V.2466/1/3

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION M.O.S. CV.2466 ISSUE 1 DATED 15.6.59

AMENDMENT NO. 1

Page 1 RATINGS

Against "Max. Screen Dissipation", delete "3.0" and substitute "1.5".

Page 2 Heater Cathode Leakage Current

In "Max. Limit" column delete "4.5" and substitute "45"

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

March, 1963.

(175339)

AAA
28/6/63