VALVE ELECTRONIC **CV1947**
(6L6G)

MINISTRY OF SUPPLY (S.R.D.E.)

Specification MOS/CV1947/Issue 2 Dated:- 4.5.49. To be read in conjunction with K1001.	SECURITY Specification: Restricted Valve: Unclassified

TYPE OF VALVE:- Beam Power Amplifier
CATHODE:- Indirectly heated
ENVELOPE:- Glass-unmetallised
PROTOTYPE:- 6L6G.

MARKING
See K1001/4.

PACKAGING
See K1005.

BASE See K1001/AIV/D2 M Dimension (V) applies
IO

RATING

		Note
Heater voltage (V)	6.3	
Heater current (A)	0.9	
Max. anode voltage (V)	400	
Max. screen voltage (V)	300	
Max. anode dissipation (W)	21	
Max. screen dissipation (W)	2.75	
Mutual conductance (mA/V)	6.0	A

CAPACITANCES (pF)

Cag	0.9
Cae	9.5
Cge	11.5

Pin	Electrode
1	No connection
2	Heater
3	Anode
4	Screen Grid
5	Control Grid
6	Pin omitted
7	Heater
8	Cathode and beam-forming plates

DIMENSIONS
See K1001/AI/D1.

NOTE

A. Measured at Va = Vg2 = 250V.
Vg1 = -14.0 V.

Dimensions	Min.	Max.
A mm.	-	136
B mm.	-	53

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No.
						Min.	Max.	Tested
	Vh	Va	V_{g2}	V_{g1}				
a	6.3	-	-	-	Ih (A)	0.84	0.96	100% Or S
b	6.3	250	250	-14	Ia (mA)	58	86	100%
c	6.3	250	250	-14	I_{g2} (mA)	-	8.0	100% or S
d	6.3	250	250	-14	gm (mA/V)	5.2	6.8	100%
e	6.3	250	250	-14	Rev. I_{g1} (µA)	-	3.0	100%
f	6.3	50	50	50	Emission (mA)	275	-	100%