

VALVE ELECTRONIC **CV1943**
(6K7GT)

ADMIRALTY SIGNAL ESTABLISHMENT ASWE

Specification AD/CV1943/Issue 2. Dated 6.6.47. To be read in conjunction with K1001.			SECURITY	
			Specification Restricted	Valve Unclassified
TYPE OF VALVE:- Variable - μ H.F. pentode.			MARKING	
CATHODE:- Indirectly heated.			See K1001/4.	
ENVELOPE:- Glass - unmetallised.				
PROTOTYPE:- 6K7GT.			BASE	
			IO	
			See K1001/AIV/D2.	
			M Dimensions (V) apply	
RATING		Note	Pin	Electrode
Heater Voltage (V)	6.3		1	No connection
Nominal heater current (A)	0.3		2	Heater
→ Max. anode voltage (V)	300		3	Anode
→ Max. screen voltage (V)	125		4	Screen grid
→ Max. anode dissipation (W)	2.75		5	Suppressor grid
→ Max. screen dissipation (W)	0.35		6	Pin omitted
Mutual conductance (mA/V)	1.45	A	7	Heater
Anode impedance (M Ω)	0.8	A	8	Cathode
Anode current (mA)	7.0	A	TC	Control grid
Screen current (mA)	1.7	A		
Grid bias for mutual conductance of 2 μ A/V (V)	42.5	C		
CAPACITANCES (pF)			TOP CAP	
→ Cag	0.0035	B	See K1001/AI/D5.2.	
→ Cae	12.0	B	DIMENSIONS	
→ Cge	5.0	B	See K1001/AI/D1.	
NOTES			Dimension	Min. Max.
A. At $V_a = 250$ V, $V_{g1} = -5$ V, $V_{g2} = 100$ V, $V_{g3} = 0$.			A mm	77.8 84.5
B. Taken with conventional shield.			B mm	- 33.5
C. At $V_a = 250$ V, $V_{g2} = 100$ V, $V_{g3} = 0$.			PACKING	
			See K1001/7.	

→ Indicates a change

CV1943/2/1

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested
							Min.	Max.	
a	See K1001/AIII					Capacitances (pF.)			
	Links to H.P.	Links to L.P.	Links to E.			(i) Cag	-	0.005	T.A.
	3	TC1	1,2,4,5, 6,7,8,9, 10,TC2.						
	3	1,2,4,5, 7,8.	6,9,10, TC1,TC2.			(ii) Cae	8.0	14.5	6 per week
	TC1	1,2,4,5, 7,8.	3,6,9,10, TC2.			(iii) Cge	4.0	6.0	
b	Vh (V)	Va (V)	Vg3 (V)	Vg2 (V)	Vg1 (V)				
	6.3	0	0	0	0	Ih (A)	0.27	0.33	100% or S
c	6.3	250	0	100	-3	Ia (mA)	4.9	9.5	100%
d	6.3	250	0	100	-3	Ig2 (mA)	0.9	2.5	100% or S
e	6.3	250	0	100	-3	gm (mA/V)	1.1	1.9	100%
f	6.3	250	0	100	-3	Rev Ig (μA)	-	1.0	100%
g	6.3	250	0	100	-30	Ia tail (μA)	50	500	100%