MINISTRY OF SUPPLY D.L.R.D. (A)/R.A.E.

VALVE ELECTRONIC

CV475

Specification MOSA/CV475 Issue 2 Dated 25. 1. 57. To be read in conjunction with BS1409 and K1001	SECURITY Specification: UNCLASSIFIED Valve: UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Subminiature Pentode Semi-remote cut off with flying leads

CATHODE - Indirectly heated

ENVELOPE - Glass, unmetallised

PROTOTYPE - 5899

MARKING

See K1001/4

Additional Marking :- 5899

RATING

(All limiting values are absolute)

			Note
Heater Voltage	(V)	6.3	
Heater Current	(A)	0.15	
Max. Operating Anode Voltage	(V)	165	
Max. Operating Screen Voltage	(V)	155	
Max. Anode Dissipation	(W)	1.1	
Max. Screen Dissipation	(W)	0.55	
Max. Cathode Current	(mA)	16.5	
Mutual Conductance	(mA/V)	4.5	B
Max. Heater-Cathode Voltage	(V)	±200	

BASE

B8D

CONNECTIONS

Pin	Electrode	
1	Grid	g
2	Cathode. Supp.	k+s
3	Heater	h
4	Cathode Supp.	k+s
5	Anode	a
6	Heater	h
7	Screen	s
8	Cathode. supp.	k+s

CAPACITANCE (pF)

			Note
C in (nom.)		4.3	A
C out (nom.)		3.4	A
Cag (max)		0.015	A

DIMENSIONS

See K1001/A1/10

Dimensions (m.m.)	Min.	Max.
A	-	35
B	-	10.16
D	25.8	28.8 ←

MOUNTING POSITION

Any

NOTE

A. Measured with a close fitting metal screen

B. At Va = Vg_2 = 100V, Rk = 120 ohms.

To be performed in additioned to those applicable in K1001

Test Conditions						Test	Limits Min.	Limits Max.	No. Tested	Note
a	Measured on a 1 Mc/s bridge with valve mounted in a fully shielded holder. Valve screened.					CAPACITANCE (pF) C in	3.8	4.8	6 per week	
						C out	2.9	3.9		
						Cag	-	0.015		
	Vh	Va	Vg2	Vg1	Rk(Ω)					
b	6.3	-	-	-	-	Heater Current (A)	0.138	0.162	100% or S	
c	6.3	100	100	0	120	Anode Current (mA)	5.2	9.2	100%	
d	6.3	100	100	0	120	Screen Current (mA)	0.5	3.5	100%	
→ e	6.3	100	100	0	120	Reverse grid Current (μA)	-	0.3	100%	
f	6.3	100	100	0	120	Mutual Conductance (mA/V)	3.8	5.2	100%	
g	5.7	100	100	0	120	Mutual Conductance (mA/V)	3.5	-	20 per week	
h	6.3	100	100	0	120	Anode Resistance (kΩ)	175	-	20 per week	
→ j	6.3	100	100	-14	0	Mutual Conductance (μA/V)	1.0	75	20 per week	