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

VALVE ELECTRONIC CV2275

Specification MOSA/CV2275 Issue 2 Dated 20.1.55 To be read in conjunction with B.S.1409 & K.1001	SECURITY	
	Specification UNCLASSIFIED	Valve UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - U.H.F. Triode

CATHODE   - Directly Heated

ENVELOPE   - Glass unmetallised

PROTOTYPE   - VX.8105

MARKING

See K1001/4

RATING

			Note
Filament Voltage	(V)	1.25	B
Max. Filament Voltage	(V)	1.35	
Filament Current	(A)	0.2	
Max. Anode Voltage	(V)	170	
Max. Anode Dissipation	(W)	2.6	
Max. Cathode Current	(mA)	22	
Mutual Conductance	(mA/V)	3.75	A
Amplification Factor		14	A
Anode Impedance	(kΩ)	4	A

BASE

B8D

CONNECTIONS

Pin	Electrode
1	g
2	NC
3	NC
4	f(-)
5	f(+)
6	NC
7	NC
8	a

CAPACITANCES (pF)

C in (Nom.)	1.3	C
C out (Nom.)	1.9	C
Ca, g (Nom.)	1.5	C

DIMENSIONS

See K.1001/A1/D10

Dimension	Min.	Max.
A m.m.	-	44.3
B m.m.	-	10.16

NOTES

A.   Measured at Va = 150, Ia = 14.5 mA (Vg = -4.5 approx.)

B.   This assumes no R.F. heating effects in the filament, where
     such heating occurs the max. Vf must be reduced to 1.30.
     In no case shall the R.F. heating exceed 25 mW.

C.   Measured with a close fitting metal shield.

CV2275

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

Test Conditions			Test		Limits		No. Tested	Note
					Min.	Max.		
See K.1001/AIII			CAPACITANCES (pF)				6	
Links to H.P.	Links to L.P.	Links to E.						
1	4,5.	2,3,6,7,8.	C in		1.0	1.6	per	1
8	4,5.	1,2,3,6,7.	C out		1.5	2.3	week	1
8	1	2,3,4,5,6,7.	Ca, g		1.2	1.8		1
	Vf	Va	Vg					
a	1.25	0	0	If	(mA)	180	220	100% or S	
b	1.25	150	−4.5	Ia	(mA)	10.5	18.5	100%	
c	1.25	150	−4.5	−Ig	(μA)	−	0.5	100%	2
d	1.25	150	−4.5	gm	(mA/V)	3.0	4.5	100%	
e	1.0	150	−4.5	gm	(mA/V)	2.5	−	100%	3

NOTES

1. Measured with close fitting metal shield, connected to cathode.

2. Megohm protective resistance in series, limits to be decided.

3. This may be replaced by a dynamic test at a later date.