

# CV1071 VU71

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MINISTRY OF AIRCRAFT PRODUCTION (D.C.D).

VALVE ELECTRONIC

Specification D.C.D.W.T.1034, Issue No.7, dated 19th May,1944.	<b>VALVE SECURITY</b> Non-Secret.	To be read in conjunction with K1001, ignoring clauses :- 5.2 and 5.8.
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<b>TYPE OF VALVE :-</b>	High Vacuum full-wave rectifier.	<b>MARKING</b> VU71 10E/11529
<b>CATHODE :-</b>	Directly heated.	<b>BASE</b> IO
<b>ENVELOPE :-</b>	Glass - unmetallised.	
<b>COMMERCIAL PROTOTYPE :-</b>	U52.	
<b>RATING</b>	<b>Note</b>	<b>Pin</b>   <b>Electrode</b>
Filament Voltage (V)	5.0	1   No connection
Filament Current (A)	3.0	2   Filament
Max. applied R.M.S.Voltage (V)	500	3   Pin omitted
Max. working peak inverse voltage (V)	1350	4   Anode
Max. no load peak inverse voltage (V)	1500	5   Pin omitted
Max. mean D.C. rectified current (mA)	250	6   Anode
Max. peak anode current (mA)	750	7   Pin omitted
Max. reservoir condenser (µF)	16	8   Filament
Min. limiting resistance introduced externally (ohms)	75	<b>DIMENSIONS</b>
(Ratings apply to condenser input filter and 50 c.p.s. supply).		See K1001/A1/D1.
		mm.   Min.   Max.
		A   -   136
		B   -   51
		D   -   41
		J   82   -

### TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions		Test	Limits		No. Tested	Note
	Vf	Va		Min.	Max.		
a	5.0 A.C.		If (A)	-	3.3	100% or 5	
b	5.0 A.C.	60	Ia (mA)	200	340	100%	1
c	5.0 A.C.	Input voltage 500-0-500 R.M.S. Frequency 50 c.p.s. D.C. load current 250 mA. Reservoir Condenser 4µF. Effective resistance in series with each anode 75 ohms.	<b>Load Test.</b> Output voltage (V). Run one minute, reject for soft- ness or persis- tent flashover.	480		100%	

### NOTE

1. Test to be applied to each anode.