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

CV1071 VU71

VALVE ELECTRONIC

Specification D.C.D.W.T.1034, Issue No.7, dated 19th May, 1944.	VALVE SECURITY Non-Secret.	To be read in conjunction with K1001, ignoring clauses :- 5.2 and 5.8.

TYPE OF VALVE :- High Vacuum full-wave rectifier.

CATHODE :- Directly heated.

ENVELOPE :- Glass - unmetallised.

COMMERCIAL PROTOTYPE :- U52.

RATING

		Note
Filament Voltage (V)	5.0	
Filament Current (A)	3.0	
Max. applied R.M.S. Voltage (V)	500	
Max. working peak inverse voltage (V)	1350	
Max. no load peak inverse voltage (V)	1500	
Max. mean D.C. rectified current (mA)	250	
Max. peak anode current (mA)	750	
Max. reservoir condenser (μF)	16	
Min. limiting resistance introduced externally (ohms)	75	

(Ratings apply to condenser input filter and 50 c.p.s. supply).

MARKING

VU71
10E/11529

BASE 10 See K1001/A1V/D2 M Dimension (vi) applies

Pin	Electrode
1	No connection
2	Filament
3	Pin omitted
4	Anode
5	Pin omitted
6	Anode
7	Pin omitted
8	Filament

DIMENSIONS

See K1001/AI/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 Vf	Test Conditions Va	Test	Limits Min.	Limits Max.	No. Tested	Note
a	5.0 A.C.		If (A)	-	3.3	100% or S	
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.	Load Test. Output voltage (V). Run one minute, reject for softness or persistent flashover.	480		100%	

NOTE

1. Test to be applied to each anode.