VALVES ELECTRONIC

MINISTRY OF AVIATION D.L.R.D./R.A.E.

C.V. 6065
C.V. 6066
C.V. 6067

Specification MOA/CV. 6065 CV. 6066 CV. 6067	SECURITY	
Issue No. 1 Dated 14.7.60.	SPECIFICATION	VALVE
To be read in conjunction with K.1001, BS.448 and BS.1409	Unclassified	Unclassified

TYPE OF VALVE: Corona Stabiliser Valves.

CATHODE: Cold.

ENVELOPE: Glass.

PROTOTYPE: SC1/1600, SC1/1800, SC1/2000

MARKING

See K.1001/4.

BASE

BS.448/B7G

RATINGS

(All limiting values are absolute)

Operating Voltage		
CV.6065	(V)	1600
CV.6066	(V)	1800
CV.6067	(V)	2000
Normal Operating Current	(μA)	250
Average Incremental Resistance	(KΩ)	50
Temperature Stability	(%/°C)	0.01
Minimum Stable Current	(μA)	20
Maximum Stable Current	(μA)	600

CONNECTIONS

PIN	ELECTRODE	
1	No connection	NC
2	No connection	NC
3	No connection	NC
4	No connection	NC
5	No connection	NC
6	No connection	NC
7	Cathode	k
Top Cap	Anode	a

DIMENSIONS

BS.448/B7G/2.2 Size Ref. No. 4.

DIMENSIONS (mm)	MIN.	MAX
"A" Seated Height	57.2	66.7
"C" Diameter	16	19
"D" Overall Length	-	73.8

TOP CAP

BS.448/CT1.

NOTES

A. For stabilisers to operate within the range 350 to 1400V, see Specification CV2456, 57, 58, 59, 60, 61 and 62.

B. The Joint Service Catalogue Numbers are:- CV6065:- 5960-99-037-2276
CV6066:- 5960-99-037-2277
CV6067:- 5960-99-037-2278

To be performed in addition to K.1001

All tests are to be performed in the specified order with the valves mounted in total darkness and except where otherwise stated in an ambient temperature of 20° ± 5°C.

The tests specified in clauses "b" to "g" inclusive are to be performed at least 28 days after Test "a".

	Test Conditions	Test	Limits Min.	Limits Max.	No. Tested	Notes
a	Adjust Ia = 250µA	Operating Voltage CV. 6065 (V) CV. 6066 (V) CV. 6067 (V)	 1560 1755 1950	 1640 1845 2050	100%	1 & 2
b	Adjust Ia = 250µA	Operating Voltage CV. 6065 (V) CV. 6066 (V) CV. 6067 (V)	 1560 1755 1950	 1640 1845 2050	100%	1, 2 & 3
c	Adjust Ia = 600µA	Current Stability Meter Fluctuations (µA)	 -	 5	100%	4
d	Adjust Ia = 20µA	Current Stability Meter Fluctuations (µA)	 -	 5	100%	4
e	Adjust Ia = 225µA	Regulation (1) (1) Test as in Test 'b' above but with test conditions modified as in Test Condition column at left. (2) Change in operating voltage between values found in Test 'b' and Test 'e(1)':- CV. 6065 (V) CV. 6066 (V) CV. 6067 (V)	 - - -	 4.5 5.5 6.5	100%	2 & 5
f	Adjust Ia = 275µA	Regulation (2) (1) Test as in Test 'b' above but with test conditions modified as in Test Condition column at left. (2) Change in operating voltage between values found in Test 'b' and Test 'f(1)':- CV. 6065 (V) CV. 6066 (V) CV. 6067 (V)	 - - -	 4.5 5.5 6.5	100%	2 & 5

C.V.6065/6/7

	Test Conditions	Test	Limits Min.	Limits Max.	No. Tested	Notes
g	The valve to be run for a minimum period of 7 hours with Ia = 250µA.	Stability Test (1) Test as in Test 'b' above but with test conditions modified as in Test Condition column at left. (2) Change in operating voltage between values found in Test 'b' and Test 'g(1)':- CV. 6065 (V) CV. 6066 (V) CV. 6067 (V)	 - - -	 4.0 4.5 5.0	100%	2 & 6
h	Adjust Ia = 250µA. Ambient Temperature = −20°C Ambient Temperature =+70°C	Temperature Stability (1) Test as in Test 'b' but with Test Conditions modified as in Test Condition column at left. (2) Test as in Test 'b' but with Test Conditions modified as in Test Condition column at left. (3) Change in operating voltage between values obtained in Test 'h(1)' and Test 'h(2)' CV. 6065 (V) CV. 6066 (V) CV. 6067 (V)	 - - -	 24 27 30	T.A.	2 & 5

Amdt 1.

NOTES

1. The valves shall have been in the ageing rack immediately prior to Test 'b'. They shall be quickly transferred to the test position. Time taken to strike shall be less than 0.5 secs.

2. The values of operating voltage are to be recorded.

3. An increase in voltage between the value obtained in Test 'b' and that recorded in Test 'a' shall not be greater than 5V.

   Should the value of operating voltage recorded in Test 'b' be higher than that specified above, the valves are to be held for a further minimum period of 28 days when if the upward drift is still evident the valve shall be rejected.

4. To be performed in an approved circuit.

5. Tests to be completed within 30 secs.

6. On completion of Test 'f' the valves shall be run for the seven hour stability test. The conditions of Note 1 shall apply.

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOA/CV6065, CV6066, CV6067
ISSUE NO. 1 DATED 14.7.60

AMENDMENT NO. 1

Page 3. Clause h. Temperature Stability Test (1)

In Column headed "Test Conditions," immediately under "Adjust Ia = 250 uA"

Add "Ambient Temperature = -20°C."

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TVC for RAE

RAE
25/1/61