VALVE ELECTRONIC CV5140

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

GUNDATTI CARTON MAA (OT 5410									
SPECIFICATION MOA/CV.514C			SECURITY						
ISSUE NO. 2 DATED 14.3.63	SPECIFICATION	VALVE							
To be read in conjunction with K.100 ES.1409.	Unclassified	Unclassified							
TYPE OF VALVE: U.H.F. Disc-sealed Measuring Diode with flying leads.			MARKING See K.1001/4						
CATHODE: Indirectly-heated.	See K. 1001/4								
ENVELOPE: Glass with disc seal.				1					
PROTOTYPE: EA52.									
RATINGS (All limiting values are absolute)			BASE						
	See Drawing on page 3.								
Heater Volts (V) Heater Current (A) Max.Peak Inverse Voltage (f = <100 Mc/s) (kV) Max.Mean Cathode Current (µA) Max.Peak Cathode Current (mA) Max.Heater-Cathode Voltage (V)		A	CONNECTIONS See Drawing on page 3. Note B.						
			DIMENSIONS						
Max. Heater-Cathode Resistance ($k\Omega$) Max. Operating Frequency (Mc/s)	1000		See Drawing on page 3.						
<u>CAPACITANCES</u>			MOUNTING	POSITION					
Cak (max.) (pF)	0.5		Any.						
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NOTES

- A. For frequencies greater than 100 Mc/s the maximum peak inverse voltage is $\frac{10^5}{f}$ Volts. (f is in Mc/s).
- Heater leads must not be soldered closer than 7 m/m or bent nearer than 1.5 m/m from the seal.

TESTS

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

TEST CONDITIONS: Unless otherwise stated:

These tests are not to be performed until at least 28 days after completion of manufacture.

Vh = 6.3V. The tests to be performed after an initial warming up period of at least three minutes.

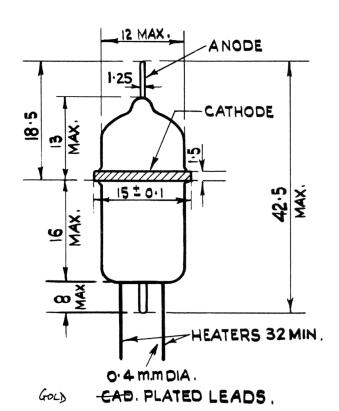
Test	Test Conditions	AQL	Insp.	Symbol	L I wi TS		Units
lest	rest conditions		Level		Min.	Max.	onics
GROUP A							
Electrode Insulation	Va = -3CCV. Note 1.	-	100/1	R	10	-	Мυ
Heater-Cathode Leakage Current	Vhk = ± 5CV. Note 2.	-	100%	Ihk	-	13	μД
Heater Current		-	100%	Ih	288	312	mA
Anode Current (1)	Va = +3V.	-	1007	Ia	600	-	ДД
Anode Current (2)	Vn = 5.7V. Va = C.	-	1007	Ia	1.0	-	Αц
Anode Current (3)	Va = C.	-	1007	Ia	3.0	-	μА
GROUP B							
Capacitance	To be performed on a 1Mc/s bridge in an approved holder. Note 3.	2.5	IC	Cak	-	C.5	pF

NOTES

- 1. Heater and cathode strapped and considered as a single electrode.
- 2. Heater positive and negative successively.
- 3. The capacitance connections shall be:-

H.P. - anode. L.P. - cathode. E - heaters and metal parts.

Amdu.1.



ALL DIMENSIONS IN m.m.