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VALVE ELECTRONIC C.V.397

MINISTRY OF SUPPLY - D.L.R.D./R.A.E.

SECURITY SPECIFICATION MOS/CV.397 SPECIFICATION VALVE Dated 1.7.59 Issue 5 Unclassified To be read in conjunction with K.1001. Unclassified

Indicates a change

TYPE OF VALVE - Disc Seal Triode CATHODE - Indirectly heated ENVELOPE - Glass PROTOTYPE - VX.3058			MARKING See K.1001/4 BASE None			
RATING Heater Voltage (V) Heater Current (A) Max. Anode Voltage (V) Max. Anode Dissipation (W) Max. Mean Anode Current (mA) Amplification Factor Mutual Conductance (mA/V)	6.3 1.0 400 20 120 28 12	NOTES A B C C	DIMENSIONS AND CONNECTIONS See page 3 and 4.			
CAPACITANCES (pF) Cag (nom.) Cac (nom.) Cgc (nom.)	2•3 •05 5		·			

NOTES

- In order to limit the rate of change of anode seal temperature it is necessary that the mass of metal in close thermal contact with the anode disc should not be less than 4 ounces.
- в. Under C.W. conditions.
- Measured at Va = 400, Ia = 50 mA. C.

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

TEST CONDITIONS:

Unless otherwise stated.

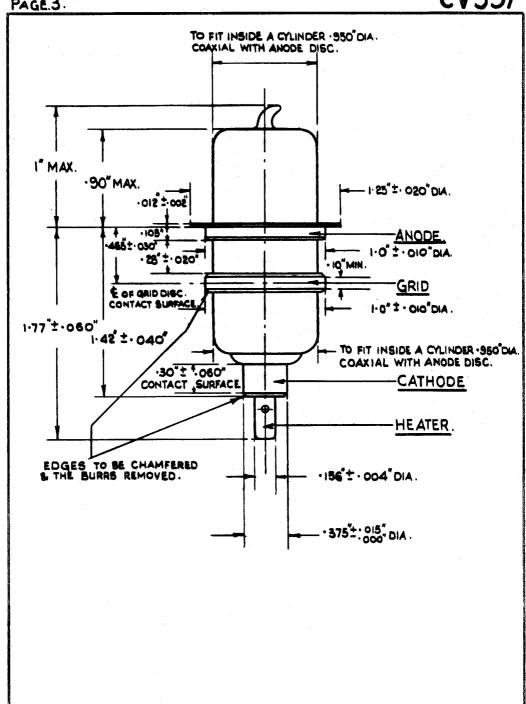
Vh Va (V 6.3 40

Tests	Test Conditions	Insp. Level	AQL %	Symbol	LIMITS		Units
16202	1050 001101 010110				Min.	Max.	0112 00
GROUP A							
Reverse Grid Current (1)	Adjust Vg for Ia = 50mA Note 1.	100%	-	-Ig1	-	. 5.0	μ Δ .
Reverse Grid Current (2)	Adjust Vg for Ia = 2mA	100%	-	-Ig1	-	5.0	μ Δ
Negative Grid Volts (1)	Adjust Vg for Ia = 50mA	100%	-	- ∀ g	6.0	15.0	٧
Mutual Conductance	Adjust Vg for Ia = 50mA Peak grid swing = ± 0.5V max.	100%	-	gm	8.0	-	mA/V
Negative Grid Volts (2)	Adjust Vg for Ia = 2mA	100%	-	- V g	-	27	Ψ.
Peak Emission	Anode and grid strapped. Peak applied voltage = 200V. Tp = 200µ sec.	100%	-	Ik(peak)	4.0	-	A
	Pulse shape sinusoidal. p.r.f. = 50 c/s.						
GROUP B							
Heater Current		п	1.5	. Ih	0.95	1.1	A
C.W. Power Output	Va = 300V. Ia = 100mA max. Ig = 40mA max. f = 470Mc/s. min. Note 2.	II	2•5	Pout	10	-	₩ ←
GROUP C							
Capacitance	To be measured in an approved jig on an R.F. bridge at a frequency of 1Mc/s. Note 3.	IC	6.5	Cag Cac Cgc	1.9 - 3.0	2.7. 0.075 6.0	5 <u>p</u> 5 <u>p</u> 5 <u>p</u>

NOTES

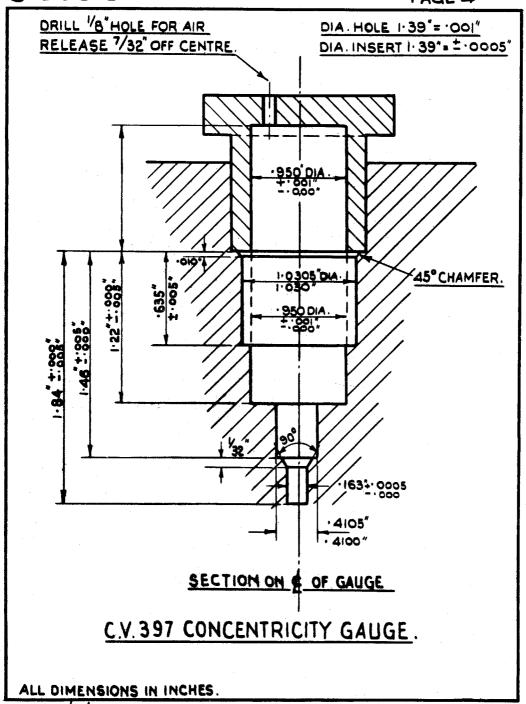
- The valve should be operated under the test conditions for two minutes before the readings are taken.
- 2. To be measured in an approved circuit.
- R.A.E. Drawing Number WT.41544 shows a suitable jig for measuring capacitances.

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