

NOTE

Specification CV.3990
Issue 1A. This
specification consists
of Sheets A & B enclosed
herewith together with
pages 1 & 2 of Issue 1
which must be retained.

T.V.C.

N.40606

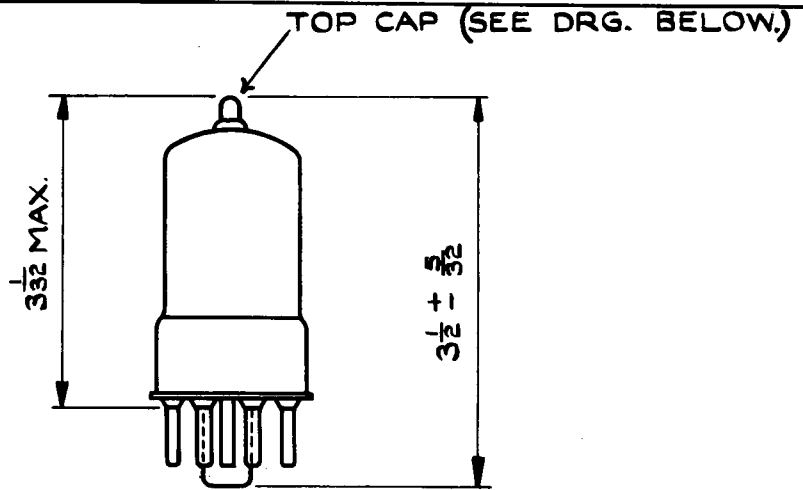
MINISTRY OF AVIATION, D.L.R.D./R.A.E.

SPECIFICATION: M.O.A./CV.3990 incorporating MIL-E-1/338B ISSUE 1A DATED 2.7.62 To be read in conjunction with K1006, K1001, BS.448 and BS.1409	<u>SECURITY</u>	
	<u>SPECIFICATION</u>	<u>VALVE</u>
	Unclassified	Unclassified

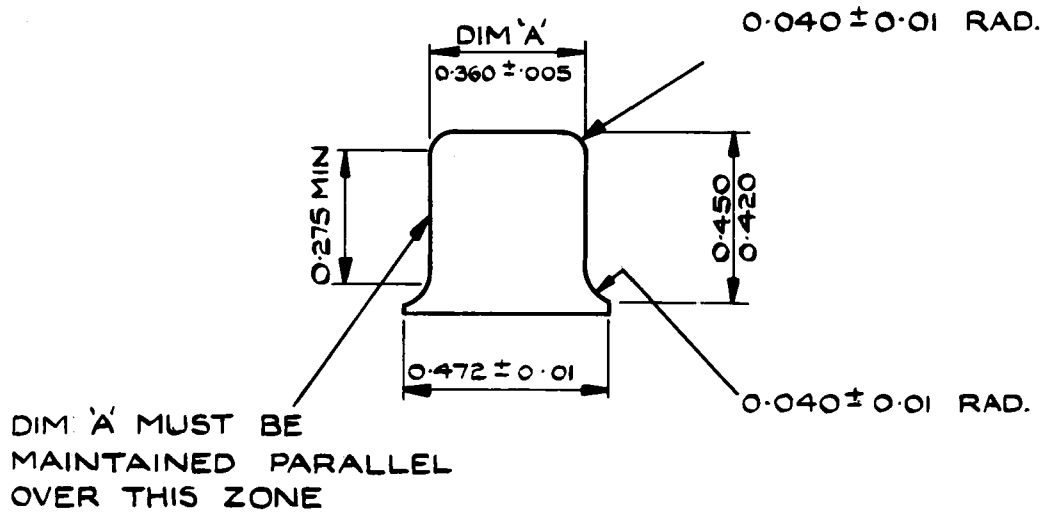
TYPE OF VALVE: Beam Power Amplifier CATHODE: Indirectly heated ENVELOPE: Glass PROTOTYPE: 2E26	<u>MARKING</u> See K1001/4	
	<u>BASE</u> K1006/B8-26. Small wafer octal 8-pin with sleeve, Phenolic.	
<u>RATINGS</u> (All limiting values are absolute)		
Heater Voltage (V)	6.3	<u>CONNECTIONS</u> 1 Cathode and k and Suppressor g3 2 Heater h 3 Screen grid g2 4 Cathode and k and Suppressor g3 5 Control grid g1 6 Cathode and k and Suppressor g3 7 Heater h 8 Base sleeve T.C. Anode a
Heater Current (A)	0.8	
Max. Operating Screen Voltage (V)	200	
Max. Anode Dissipation (W)	10	
Max. Screen Dissipation (W)	2.5	
Max. Heater-Cathode Voltage (V)	100	
<u>Class AB2 Audio</u>		
Max. Anode Voltage (V)	400	
Max. Cathode Current (mA)	75	
Max. Anode Dissipation (W)	10	
Max. Screen Dissipation (W)	2.5	
Max. Anode Input (W)	30	
<u>Class C. Telephony (Anode Modulation)</u>		
Max. Anode Voltage (V)	400	
Max. Cathode Current (mA)	60	
Max. Anode Dissipation (W)	6.7	
Max. Screen Dissipation (W)	1.7	
Max. Negative Grid Voltage (V)	175	
Max. Grid Current (mA)	3.5	
Max. Anode Input (W)	20	
<u>Class C. Telegraphy</u>		
Max. Anode Voltage (V)	500	
Max. Cathode Current (mA)	75	
Max. Anode Dissipation (W)	10	
Max. Screen Dissipation (W)	2.5	
Max. Negative Grid Voltage (V)	175	
Max. Grid Current (mA)	3.5	
Max. Anode Input (W)	30	
<u>CAPACITANCES (Without screen)</u>		
C in (nom.) (pF)	13	
C out (nom.) (pF)	7	
C ag (max.) (pF)	7.2	
		<u>DIMENSIONS</u> See drawing on page B
		<u>TOP CAP</u> See drawing on page B
		The Joint Services Catalogue Number is:- 5960-99-000-3990

(40606)

CV.3990/1A/1



VALVE OUTLINE



TOP CAP.

ALL DIMENSIONS IN INS.

CV3990/1A/2

CV3990

Ref.	Test	Conditions	AQL(%)	Insp. Level or Code	Sym.	LIMITS						Units
						Min.	LAL	Bogie	UAL	Max.	ALD	
<u>Measurements Acceptance Tests, Part 2 (contd)</u>												
4.10.3.4	Transmitting Tube Noise:	Eb=250Vdc;Ec2=125 Vdc;Ec1/Ib=2mAdc	---	---	---	---	---	---	---	---	---	---
4.10.14	Capacitance:	No Shield; Note 2 No Shield; Note 2 No Shield; Note 2	6.5	IA	Cgp: Cin: Cout:	--- 10.8 5.4	---	---	---	0.2 15.2 8.6	--- --- ---	uuf uuf uuf
Ref.	Test	Conditions	AQL(%)	Insp. Level or Code	Allowable Defectives per Characteristic		Sym.	LIMITS		Units		
					1st Sample	Combined Samples		Min.	Max.			
<u>Acceptance Life Tests</u>												
4.11	Life Test:	Group C;Eb=500Vdc;Ec2=200Vdc;Ec1/Ib=20mAdc					t:	500	---	hours		
4.11.4	Life Test End Point:	Emission					Is:	100	---	mAdc		
<u>Packaging Requirements</u>												
4.9.18.1.7	Container Drop:	(d) Package Group 1; Container Size E										

- Note 1: The AQL for the combined defectives for attributes in Measurements Acceptance Tests, Part 1, excluding Mechanical, shall be one percent. A tube having one or more defects shall be counted as one defective. MIL-STD-105, Inspection Level II, shall apply.
- Note 2: Base Sleeve tied to cathode.
- Note 3: Reference specification shall be of the issue in effect on the date of invitation for bid.