

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

SPECIFICATION M.O.A./CV.3991 Incorporating MIL-E-1/160H ISSUE 2A Dated 1.2.63 To be read in conjunction with K.1006			<u>SECURITY</u> <u>SPECIFICATION</u> <u>VALVE</u> Unclassified Unclassified	
TYPE OF VALVE: Power Tetrode - External Anode CATHODE: Indirectly Heated ENVELOPE: Glass Metal Construction PROTOTYPE: 4X150D			<u>MARKING</u> See K1001/4	
<u>RATINGS AND CHARACTERISTICS</u> (All limiting values are absolute)			<u>BASE</u> ES.448/B8F See drawing on Page 7 of Specification MOA/CV.2519 Issue 4A Dated 1.2.63	
<u>NOTES</u>			<u>CONNECTIONS</u>	
Heater Voltage	(V)	26.5	<u>Pin</u>	<u>Electrode</u>
Heater Current	(A)	0.56	1	Screen g2
Max. Negative Control Grid Volts	(V)	250	2	Cathode k
Max. Input Control Grid	(W)	2	3	Heater h
Max. Heater Cath. Voltage	(V)	+150	4	Cathode k
Max. Anode Core Temp.	(°C)	250	5	Int. Con. IC
Max. Anode Seal Temp.	(°C)	200	6	Cathode k
Max. Base Seal Temp.	(°C)	175	7	Heater h
Max. Altitude	(ft)	10,000	8	Cathode k
Min. Cathode Heating Period	(Secs)	30	Centre Pin	Con. Grid g1
<u>Class A B Audio</u>			Cooling Fin	Anode a
Max. Anode Voltage	(kV)	2	<u>DIMENSIONS</u> See Drawing on Page 7 of Specification MOA/CV.2519 Issue 4A Dated 1.2.63	
Max. Anode Dissipation	(W)	250		
Max. Anode Input	(W)	500		
Max. Anode Current	(mA)	250		
Max. Voltage Screen Grid	(V)	400		
Max. Screen Dissipation	(W)	12		
<u>Class C Telephony</u>				
Max. Anode Voltage (Up to 150 Mc/s)	(kV)	1.6		
Max. Anode Input (Up to 150 Mc/s)	(W)	320		
Max. Anode Volts (Between 150 and 500 Mc/s)	(kV)	1		
Max. Anode Input (Between 150 and 500 Mc/s)	(W)	200		
Max. Anode Dissipation	(W)	165		
Max. Voltage Screen Grid	(V)	300		
Max. Screen Dissipation	(W)	10		
Max. Anode Current	(mA)	200		

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<u>Class C Telegraphy</u>		
Max. Anode Voltage (Up to 150 Mc/s)	(kV)	2
Max. Anode Input (Up to 150 Mc/s)	(W)	500
Max. Anode Volts (Between 150 and 500 Mc/s)	(kV)	1.25
Max. Anode Input (Between 150 and 500 Mc/s)	(W)	312
Max. Anode Dissipation	(W)	250
Max. Voltage Screen	(V)	300
Max. Screen Dissipation	(W)	12
Max. Anode Current	(mA)	250
<u>CAPACITANCES pf</u>		
C in (Nom.)		15.25
C out (Nom.)		4.4
Cagl (Max.)		0.05
<u>NOTES</u> A. See Note 1 on Page 4 B. The Joint Services Catalogue is 5960-99-000-3991		
<u>TESTS</u> The tests for Valve Type CV.3991 specified on Pages 1 to 9 of Specification CV.2519 Issue 4A dated 1.2.63 shall apply.		