

CV3512

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

Specification MOS(A)/CV3512 incorporating MIL-E-1/917A		<u>SECURITY</u>	
Issue 1 Dated 20.4.56		<u>Specification</u>	<u>Valve</u>
To be read in conjunction with B.S.448, B.S.1409 and K.1006		UNCLASSIFIED	UNCLASSIFIED

TYPE OF VALVE - Gas Filled Tetrode			<u>MARKING</u>		
CATHODE - Indirectly heated			See K1001/4		
ENVELOPE - Glass			Additional Marking:-		
PROTOTYPE - 5696			5696		
<u>RATING</u>			<u>BASE</u>		
			B.S.448/B7G (Miniature Button 7 Pin)		
			<u>CONNECTIONS</u>		
			<u>Pin</u>		<u>Electrode</u>
Heater Voltage (V)			6.3±10%		
Heater Current (mA)			150		
Max. Peak Forward Anode Voltage (V)			500		A
Max. Peak Inverse Voltage (V)			500		A
Max. Grid 1 Voltage (non conduction) (V)			-100		A
Max. Grid 2 Voltage (non conduction) (V)			-50		A
Max. Grid 1 Voltage (conduction) (V)			-10		
Max. Grid 2 Voltage (conduction) (V)			-10		
Max. Peak Cathode Current (mA)			100		A
Max. Cathode Current D.C. (mA)			25		A
Max. Heater - Cathode Voltage (V)			-100		A
Max. Ambient Temperature Range (C)			-75to+90		A
Min. Cathode Heating Time (Sec)			10		
			<u>DIMENSIONS</u>		
			See B.S.448/B7G/2-1 Size Ref. No. 2		
			<u>Dimensions (mm)</u>		<u>Min.</u> <u>Max.</u>
			A seated height		- 47.5
			C diameter		16.0 19.0
			D overall length		- 54.5

NOTES

A. Absolute Value.

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<u>Nonconduction</u>						<u>Conduction</u>											
Ratings:	Kf	epx	epy	eod	edl	Eo2	Eol	Iel	Ie2	Ik	Ik	Ehk	Tk	tk	Rgl	Alt	
Absolute	V	v	v	Vds	Vde	Vdo	Vde	mide	mide	ma	mide	V	°C	sec(min)	Meg	ft	
Maximum:	6.3 ^{20%}	500	500	-50	-100	-10	-10	5	5	100	25	-100	-75to+90	10	10	10,000	
Test Conds:	6.3	---	---	0	---	---	---	Note 1	Note 1	---	---	Note 2 #25	---	---	---	---	

Envelope: T-5-1/2 (6-1)

For miscellaneous requirements, see Paragraph 3.3, Inspection Instructions for Electron Tubes.

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- Note 1: Over a 30 second maximum interval.
- Note 2: Cathode is reference element.
- Note 3: 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 4: Connect pins 5 and 7 to pin 2.
- Note 5: Use miniature steatite socket with grounded shield base. Shield the plate power supply. Use short shielded plate and grid leads. Plate and grid resistors should be noninductive. Connect the grid resistor directly at the socket.
- Note 6: No voltages shall be applied to tube for 20 minutes minimum preceding test.
- Note 7: Preheat 15 minutes minimum under test conditions or under conditions: $E_f=7.0$; $E_{pp}=vary$; $E_{c1}=E_{c2}=0$; $R_g=10Meg$; $I_b=100mADC$. 5 seconds maximum between preheat and test.
- Note 8: Phase of grid voltage adjusted to provide start of conduction at peak of applied anode voltage.
- Note 9: Reference specification shall be of the issue in effect on the date of invitation for bid.