MINISTRY OF SUPPLY - DLRD/RRE

$\underline{\mathtt{VALVE}} \ \underline{\mathtt{ELECTRONIC}} C \ V \ 2 \ 3 \ 9 \ 6$

Specification MOS/CV2396	SECURITY			
Issue 1 Dated 26 Nov 1956 To be read in conjunction with K1006	Specification UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED		
	i	i		

TYPE OF VALVE - T.R. Switch, Separate cavity PROTOTYPE - VX9175 Nearest Equivalent American Specification - MIL-E-1/21				MARKING See K1001/4
RATING			Note	
Operating Frequency	(Mc/s)	950		Dimensions & Connection
Max Ignitor Voltage	(v)	-1000		See drawing on page 3
Min Ignitor Voltage	(v)	-800	}	
Max Ignitor Current	(uA) 200		MOUNTING POSITION Any	
				·
]	NOTES		
This valve is a near-equiva	alent of the 18	23		
				i e

Z.13328.R.

 Ratings:
 Iz
 Open Circuit

 Absolute
 uAdc
 Ignitor Voltage

 Maximum:
 200
 Vdc

 Minimum:
 −
 −1000

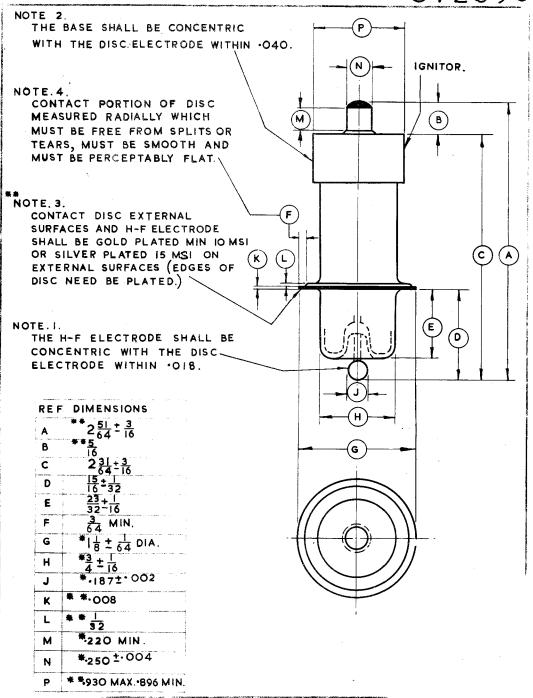
 ▼ Dimensions:
 Per Outline

Park in sealed moisture resistant bag or approved equivalent. If opeque bag is used, the tube type number shall be stamped thereon.

		r be stamped mereon.			
Ref. K1006	Test	Conditions		Min.	Max.
3.1.	Type Approval:	Required for K Markin	ng		
4.9.18.1.8. F-6a(3h)	Carton Drop:	(d) Package Group 1; Carton Size F			
4-9-19-1	¥ Vibration :	G=10;F=50;t=60; Note	1		
4-9-8 F-5h	Salt Spray :	Omit			
4.9.6 F-5g	∡ Glass Strain :				
4.18.1	Ignitor Firing Time:	Ebb = - 800 Vdc; R=3.25 megohms	t		5.0 sec
4.18.2	Ignitor Voltage Drop:	Iz = 100 uAdc	Ez	300	425 Vde
4-18-3	■ Ignitor Oscilla- tion:	Note 2	Iz		70 uAdo
	Low Power Tests		e.		
4.18.7	Tuning:	Note 1	F	949	951 Na
4-18-4-3	Insertion Loss:	Note 3; F = 950 Mc	Li	-	1.6 db
4-18-5-1	Ignitor Inter- action:	Iz = 100 uA dc	AId		0.2 db
),	High Lower Tests				
4-18-9	Leakage Power	$P_0 = 10kW + 5\%;$ tp = 1.0 + 10% US:	P	. — .	5 watts peak
		prr = 500 <u>+</u> 10% F = 600 <u>+</u> 5 Mc/s; Note 4			
4.18.15	* Recovery Time	Po = $10kW + 5\%$ tp = $1.0 \pm 10\%$ US prr = $500 \pm 10\%$; F = 600 ± 5 Mc/s; Note 5			
DLRD/RRE	SPECIFICAT	TON OTTERET	To be rea		
Specification MOS/CV2396	GAS SWITCHING SEPARATE CAVI	TUBE, TR,	conjuncti Kl00	_	[]

Ref.	KT00 6	Test	Conditions		Min.	Max.	_
4-11 F-4	5.	Life Test	Group C; Iz = 200uAdc; Note 6	t	500		hr.
4-11- F-4b	4	Life Test End Point:	Ignitor Interaction Water Vapor Content	ALi PO2/Pol		0.2 0.8	đЪ
Note:	1:	This measurement shall b per drawing 162-JAN or a	e made with the tube mount pproved equivalent.	ed in te	st cavi	ty	-
Note 2	2:	No tube shall require more than the stated maximum ignitor current to prevent relaxation oscillations when tested in the standard circuit.					
Note :	3:	This measurement shall be made in test cavity per drawing 162-JAN or approved equivalent. With the cavity calibrator in position the cavity shall be tuned to resonance and the relative transmitted power level noted. With the tube inserted, the cavity shall then be tuned to resonance and the transmitted power noted. The do loss in transmitted power due to the insertion of the tube shall not be more than the specified amount.					
Note !	The valve shall be mounted in an approved cavity. The leakage power shall be measured by means of a thermistor, the thermistor load being matched to within 0.5 db SWR to 52 ohms at the transmitter frequency.						
Note 5	ō:	Using the conditions specified in Note 4, a signal generator pulse on the same frequency shall be injected after the transmitter pulse. The time delay at which the signal generator pulse reaches a level 6 db below its maximum value shall not exceed 8 microseconds after the leading edge of the transmitter pulse.					
Note (6:	The specified life is based on ignitor life only. This will be reduced if the tube is operated under full rated rf conditions.					

DLRD/RRE	SPECIFICATION SHEET	To be read in
Specification	GAS SWITCHING TUBE, TR, SEPARATE CAVITY TYPE CV239	conjunction with K1006
MOS/CV2396	SEPARATE CAVITY TYPE CV239	16



SPECIFICATION SHEET

GAS SWITCHING TUBE, TR, SEPARATE CAVITY TYPE