VALVE ELECTRONIC

CV2390

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

Specification MOS(A)/CV23QO incorporating MIL-E-1/108	SECURITY		
Issue 2 Dated 19.1.7	Specification		
To be read in conjunction with B.S. 448, B.S. 1409 and K.1006	UNCLASSIFIED	UNCLASS IF IED	

TYPE OF VALVE - Power Amplifier Pentode CATHODE - Directly heated	MARKING See K.1001/4 Additional marking:-						
ENVELOPE - Glass unmetallised	384						
PROTOTYPE - 3AL RATING		<u>BASE</u> B.S. 448/B7G					
	Note	(Miniature Button 7 Pin)					
Filament Voltage (series) (V. Filament Current (series) (mA		<u>CONNECTIONS</u>					
Filament Voltage (parallel) (V Filament Current (parallel) (MA		A A C C	Pin	Electrode			
Max. Anode Voltage (V Max. Screen Voltage (V Max. Screen Voltage (W Max. Anode Dissipation (W Max. Screen Dissipation (W Max. Cathode Current (mA Mutual Conductance (mA/V Anode Impedance (MC)	165 150 2.2 1.0 27 2.0		1 f Note B 2 a 3 g2 4 g1 5 f and g3 Note B 6 a 7 f(+)				
CAPACITANCES (pF)	4.8	D D	DIMENSIONS See B.S.448/B7G/2.1 Size Ref. No. 2				
C out (nom) C a,g1 (max)	4.2 0.35	D	Dimension	s (mm)	Min.	Max.	
			A seated height C diameter D overall length		 16.0 	47.5 19.0 54.5	
			MOUNTING POSITION Any				

NOTES

- Absolute value.
- B. Pin 1 is filament negative for Vf = 2.8V. Pin 5 is filament negative for Vf = 1.4V.
- C. At Va = 150V; Vg2 = 90V; Vg1 = -8.4V. (Ia = 13.3 mA, Ig2 = 2.3 mA)
- D. Measured with valve unscreened.

		· V Z	<u> </u>								
								JAN	-3A4		
Ratings: Absolute Maximum: 1.4	Ef V or 2.8 <u>f</u> 15%	Eb Vdc 165	ēcl Vdc	Ec2 Vdc 150	Fp W 2.2	Fg2 W 1.0	Ik mAdc 27	Alt. ft. 10,000)		
Test Conditions:	: 1.4	150	-8.4	90							
**Height: 2-1/8 ir **Base: Miniatur		, S7 - 1			**	Diameter	: 3/4 i	n. max.			
	p g2 gl g	5 6 g3 p t(-par)	7 ≠f			Cathode: Envelope		ted Fil -1/2 (6			
Ref. Tes	st		Con	ditions				Min.	Max.		
3.1 Qua	alification Appr	roval:	Requ	uired f	or JAN	Marking					
4.9.18.1.1 Car F-6a(3b)	rton Drop:		(4)		e Gr oup Size B						
4.9.19.1 *Vil	bration:		Rp=	20 0 0			Ep	:	500	mVac	
4.10.6 *Fil F-6i	lament Current:						Ιf	: 180	220	mAdc	
4.10.6.1 † Gri F-6g(1)	id Current:						Icl	: 0	-1.0	uAdc	
4.10.4.1 Pla F-6f(1)	ate Current(1):						Ib	: 9.2	17.4	mAdc	
4.10.4.1 7 Pla F-6f(1)	ate Current(2):		Ef.	-1.1Vdc	; Note	2	Ib	: 16		mAdc	
4.10.4.3 *Sci F-6f(3)	reen Grid Curre	nt:					Ic2	: 1.3	3.3	mAdc	
4.10.9 *Tra F-6j	ansconductance:						Sm	1670	2450	umhos	
4.10.2.2 *Poi F-6d(2)	wer Oscillation	:	Vdc	; Ib=20m =0.2Meg		Ec2=135 L=0.13mAd Vdc;		0.85		W	
4.10.16.1 *Por F-6r(1)	wer Output:		Esi	g <u>=</u> 6.0Va	.с;нр <u>=</u> 80	000	Po:	550		ww	
4.10.3.2 AF F-6e(2)	Noise		Esi, Not		c;Rp=20	000;	EB:		17	VU	VISED
4.10.14 *Cap F-6p	pacitance		Wit	hout Sh hout Sh hout Sh	ield		Cglp: Cin: Cout:	3.9	0.35 5.7 5.4	uuf uuf uuf	1953 REVISED
4.11 Iii F-4	fe Test:		Gro	ap A;Ef	=1.4Vac	or Vdc	t:	500		hrs.	March
4.11.4 Lis F-4b	fe Test End Poi	nt:		nscondu er Outp	ctance ut	or	Sm: Po:			umhos mW	APPROVED30 March
CUSTODIANS: Army-Signal Corps Navy-Bureau of Ships		ECIFI POWER A			SHI	EET		MIL-E	-1/10	8	
Air Force PROCUREMENT SPECIFICATION	-	LOMER N	RECEIV	ING	,	3A4	-	SHEET	1	OF	2
MIL-E-1		Do			-						

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JAN-3A4

Note 1: Useful power output.

Note 2: Ebb_Ecc2_150Vdc; Rp_Rg2_2000; Rg1_220,000; Rg2 connected through 0.25 uf

condenser to ground; Esig=15Vac from a 500 ohm source through a 1.Ouf courling condenser. Immediately before this test the tube is to be operated for at least 3 minutes under conditions of, or equivalent to, the conditions of the

test.

Note 3: Reference specification shall be of the issue in effect on date of invitation

for bid.

CUSTODIANS:
Army-Signal Corps
Navy-Bureau of Ships
Air Force
PROCUMEMENT SPECIFICATION

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MIL-E-1/108

MIL-E-1/108

SPECIFICATION

MIL-E-1/108

SHEET 2 OF 2

APPROVEDS March 1953 REVISED

No Spee. !

SPECIFICATION CV. 2390 ISSUE 1

AMENDMENT NO. 1

TOP BOX

This specification, sent out as Issue 2, should read:

Issue 1 dated 19.1.57

The top line should read - Specification MOS(A)/CV.2390_____

NOTE TO DESIGNERS

CV.2390 (Issue 1) supersedes CV.2300 (Issue 1, or Issue 2 if held).

CV.2300 (Issue 3) defines a selected valve for maintenance of existing equipment and is not circulated to E.V.S. C & D holders. Please destroy the specification (Issue 1 or 2) in the \underline{C} & \underline{D} Books.

March, 1957 N.87380.R T.V.C. Office