

Specification MOS/CV2360 incorporating MIL-E-1/147. Issue 1 dated 15.6.55. To be read in conjunction with K1006			<u>SECURITY</u> Specification <u>Unclassified</u> Valve <u>Unclassified</u>		
<u>TYPE OF VALVE:</u> R.F. Power Amplifier Pentode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Glass, unmetallised <u>PROTOTYPE:</u> 5A6			<u>MARKING</u> K1001/4 Add 5A6		
<u>RATINGS</u>		Note	<u>BASE</u> B. S. 448/B9A (Miniature button 9 pin)		
Filament voltage (//) (V) 2.5 Filament voltage (series) (V) 5.0 Filament current (//) (mA) 460 Filament current (series) (mA) 230 Max. anode voltage (V) 150 Max. screen voltage (V) 150 Anode current (mA) 28 Screen current (mA) 2 Max. anode dissipation (W) 5 Max. screen dissipation (W) 2 Mutual conductance (mA/V) 4.3 Max. operating frequency (Mc/s) 100			Pin	<u>CONNECTIONS</u> Electrode	
<u>CAPACITANCES (pF)</u>		C	<u>DIMENSIONS (inches)</u> See BS. 448/B9A/2.1 Size ref. No. 3		
C <sub>g1p</sub> (Max.) 0.15 c <sub>in</sub> (Nom.) 8.5 c <sub>out</sub> (Nom.) 5.8			Min	Max	
			seated height - 2 <sup>3</sup> / <sub>8</sub> diameter 3/4 7/8 overall length - 2 <sup>21</sup> / <sub>32</sub>		
			<u>MOUNTING POSITION</u> Any		

- A. Absolute maximum or minimum values.
- B. Measured at V<sub>a</sub> = V<sub>g2</sub> = 150 V<sub>g1</sub> = -10 V<sub>g3</sub> = 0.
- C. Measured WITHOUT a metal screen.

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NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded as an authorization or approval of the use thereof, or as an endorsement of the views or opinions of the Government thereon.

<b>Ratings:</b>	Ef	Eb	Ecl	Ec2	Ec3	Ib	Pp	Alt.
<b>Absolute</b>	V	Vdc	Vdc	Vdc	Vdc	mAdc	W	ft.
<b>Maximum:</b>	2.5 or 5.0 $\pm 15\%$	150	-75	150	0	40	5	10,000
<b>Test Cond.:</b>	5.0	150	-10	150	0	—	—	

\*Height: 2-5/8 in. max.

\*Diameter: 7/8 in. max.

\*\*Base: Miniature Button 9-pin, E9-1

\*\*Cathode: Coated Filament  
Envelope: T-6 1/2 (6-8)

**Pin No.:	1	2	3	4	5	6	7	8	9
Element:	p	nc	g3	-f (/par)	f	g2	g1	g3	fc (-par)

Ref.	Test	Conditions	Min.	Max.
3.1	Qualification Approval:	Required for JAN Marking		
4.9.18.1.1 F-6a(3b)	Carton Drop:	(d) Package Group 1; Carton Size B		
4.9.19.1	*Vibration:	Rp=2,000	Ep: —	500 mVac
4.10.15 F-6i	*Filament Current:		If: 210	250 mA
4.10.6.1 F-6g(1)	†Grid Current:		Ic1: —	-2.0 uAdc
4.10.4.1 F-6f(1)	Plate Current (1):		Ib: 21	35 mAdc
4.10.4.1 F-6f(1)	Plate Current (2):	Ec=-25Vdc	Ib: —	2.0 mAdc
4.10.4.3 F-6f(3)	Screen Grid Current:		Ic2: 0.0	4.0 mAdc
—	Operation Peak Output Current (1):	Ebb=Ec2=120Vdc; RL=320; Ef=5.0 Vdc; Esig=20Vac; Rg1=22,000 Eccl=0; Note 1	ib: 110	— ma
—	Operation Peak Output Current (2):	Ebb=Ec2=120Vdc; RL=320; Ef=4.5Vdc; Esig=20Vac; Rg1=22,000; Eccl=0	Δib: —	10 ma
4.10.2.2 F-6b(2)	*Power Oscillation:	F=70Mc; Rg1=15,000 Rg2=1,500 min. by passed 1000 uuf minimum Esig/Ic1=1mAdc; Ib=40 mAdc	Po: 2.4	— W
4.10.3.1/ F-6e(1)	RF Noise:	Esig=60mVac		
4.10.9 F-6j	*Transconductance:		Sm: 3200	5400 umhos

APPROVED 20 May 1953 REVISED

CUSTODIANS: Army-Signal Corps Navy-Bureau of Ships Air Force PROCUREMENT SPECIFICATION MIL-E-1	SPECIFICATION SHEET	MIL-E-1/147 SHEET 1 OF 2
RF POWER AMPLIFIER AND OSCILLATOR PENTODE, RECEIVING		5A6

Other interest: Army - CMOT Navy - AMCMdOrS

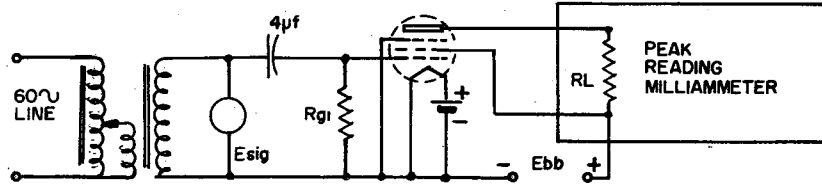
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Ref.	Test	Conditions	Min.	Max.
4.10.14 F-6p	*Capacitance:	Without shield Without shield Without shield	Cgp: — Cin: 6.5 Cout: 4.5	0.15 uuf 10.5 uuf 7.1 uuf
F-4	Life Test:	Ecl/1b=33mAdc; Group A;Ef=5.0V	t: 250	— hrs.
F-4b	Life Test End Point:	Operation Peak Output Current and Power Oscillation Note 2	1b: 100 Po: 2.0	— ma — W

Note 1: Use circuit as below:



All power supplies shall have negligible impedance to operating frequency. Grid signal impedance shall be less than 5.0 ohms; voltage sinusoidal.

Note 2: During life, Icl for Power Oscillation Test shall be 0.6 mAdc to 1.2 mAdc.

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

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