

Specification MOS/CV2360 incorporating MIL-E-1/147. Issue 1 dated 15.6.55. To be read in conjunction with K1006			<u>SECURITY</u> <u>Specification</u> <u>Valve</u> Unclassified Unclassified		
<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>		
Filament voltage (//) (V)	2.5	A A B B A A B	B. S. 448/B9A (Miniature button 9 pin)		
Filament voltage (series) (V)	5.0		Pin	<u>CONNECTIONS</u>	
Filament current (//) (mA)	460			Electrode	
Filament current (series) (mA)	230		1	p	
Max. anode voltage (V)	150		2	nc	
Max. screen voltage (V)	150		3	g3	
Anode current (mA)	28		4	-f (+//)	
Screen current (mA)	2		5	+f	
Max. anode dissipation (W)	5		6	g2	
Max. screen dissipation (W)	2	A	7	g1	
Mutual conductance (mA/V)	4.3	B	8	g3	
Max. operating frequency (Mc/s)	100		9	fct (-//)	
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS (inches)</u>		
Cg1p (Max.)	0.15	C	See BS. 448/B9A/2.1 Size ref. No.3		
cin (Nom.)	8.5	C	Dimension	Min	Max
cout (Nom.)	5.8	C	seated height	-	2 ³ / ₈
			diameter	3/ ₄	7/ ₈
			overall length	-	2 ²¹ / ₃₂
			<u>MOUNTING POSITION</u>		
			Any		

A. Absolute maximum or minimum values.

B. Measured at V_a = V_{g2} = 150 V_{g1} = -10 V_{g3} = 0.

C. Measured WITHOUT a metal screen.

CV2360

JAN-5A6

Ratings:	Ef	Eb	Ec1	Ec2	Ec3	Ib	Fp	Alt.
Absolute	V	Vdc	Vdc	Vdc	Vdc	mAdc	W	ft.
Maximum:	2.5 or 5.0 $\pm 15\%$	150	-75	150	0	40	5	10,000
Test Cond.:	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 $\sqrt{f}$ g2 g1 g3 fct
(-par) (-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 mVdc
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	Δ ib: ---	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=4.0 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

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

SPECIFICATION SHEET

MIL-E-1/147

PROCUREMENT SPECIFICATION
MTL-E-1

RF POWER AMPLIFIER AND OSCILLATOR
PENTODE, RECEIVING

5A6

SHEET 1 OF 2

Other interest: Army - CMOT Navy - AMCM10rS

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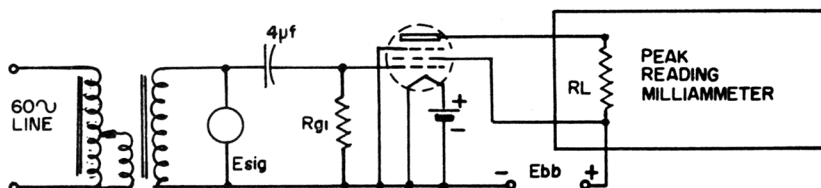
APPROVED 20 May 1953 REVISED

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Ref.	Test	Conditions	Min.	Max.
4.10.14 F-6p	*Capacitance:	Without shield Without shield Without shield	Ggp: — Cin: 6.5 Cout: 4.5	0.15 uuf 10.5 uuf 7.1 uuf
F-4	Life Test:	Ecl/lb=33mAdc; Group A; Ef=5.0V	t: 250	— hrs.
F-4b	Life Test End Point:	Operation Peak Output Current and Power Oscillation Note 2	lb: 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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RF POWER AMPLIFIER AND OSCILLATOR
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SHEET 2 OF 2

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