

Specification MOS(A)/CV1762 incorporating MIL-E-1/47
 Issue 2 Dated 26.3.56.
 To be read in conjunction with K1006

SECURITY
 Specification UNCLASSIFIED
 Valve UNCLASSIFIED

← Indicates a change

TYPE OF VALVE - Power Pentode CATHODE - Indirectly-heated ENVELOPE - Glass - unmetallised PROTOTYPE - 6AK6		<u>MARKING</u> As K1001/4, except that the RTMA number shall also be clearly marked	
<u>RATING</u>		<u>BASE</u> B7G	
		Note	<u>CONNECTIONS</u>
Heater Voltage (V)	6.3		Pin Electrode
Heater Current (A)	0.15		
Max. Anode Voltage (V)	300	A	1 Control Grid
Max. Anode Dissipation (W)	3	A	2 Suppressor
Max. Screen Voltage (V)	275	A	3 Heater
Max. Screen Dissipation (W)	0.83		4 Heater
Mutual Conductance (mA/V)	2.3	B	5 Anode
Max. Heater-Cathode Voltage (V)	180		6 Screen Grid
			7 Cathode
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u>
C _{g1}	0.12	C	See K1001/A1/D4
C _{g2}	3.6		Dimension (mm) Min. Max.
C _{ae}	4.2		A - 54.1
			B - 19.05
			L - 47.63
<u>NOTES</u>			
A. Absolute maximum value. B. V _a = V _{g2} = 180V; I _a = 15 mA; V _g = -9V. C. Measured without a close fitting metal shield.			

Z.11983.R.

CV 1762

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 formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded as an implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

Ratings:	Ef	Eb	Ec1	Ec2	Ik	Pp	.Pg2	Ehk	Altitude
Absolute	V	Vdc	Vdc	Vdc	mAdc	W	W	V	ft
Maximum:	6.3/10%	300	---	275	21	3.0	0.83	180	10,000

Test Cond.: 6.3 180 -9 180 --- --- --- ---

*Height: Max. 2-1/8 in.
*Diameter: Max. 3/4 in.

**Base: Miniature Button, 7-Pin, E7-1

**Pin No.: 1 2 3 4 5 6 7
Element: g1 g3 h h p g2 k

**Cathode: Crated Unipotential
**Envelope: T-5 1/2 (6-2)

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=2000	Ep: ---	500 mVac
4.10.8 F-6i	*Heater Current:		If: 138	162 mA
4.10.15 F-6q	*Heater-Cathode Leakage:		Ihr: 0	20 uAdc
4.10.6.1 F-6g(1)	*Total Grid Current:	Eb=300V; Ec1=-25V; Ec2=300V	Ic1: 0	-1.5 uAdc
4.10.4.3 F-6f(3)	*Screen Grid Current:		Ic2: 1	4 mAdc
4.10.4.1 F-6f(1)	Plate Current:		Ib: 11	19 mAdc
4.10.9 F-6j	*Transconductance:		Sm: 1900	2600 u-bos
4.10.16.1 F-6r(1)	Power Output(1):	Esig=6.35Vac; Rp=10000	Po: 900	--- mW
4.10.16.1 F-6r(1)	*Power Output.(2):	Ef=5.5Vdc; Esig=6.35Vac; Rp=10000	Po: 300	--- mW
4.11 F-4	Life Test:	Group A; Ef=6.3Vac; Eb=300Vdc; Ec1=-25Vdc; Ec2=300Vdc; Ehk= √180V; Rg1=0.1Meg. (min)	t: 500	--- hrs
4.11.4 F-4b	Life Test End P int:	Transconductance or Power Output	Sm: 1520 Po: 600	--- umhos --- mW
Note 1:	Referenced specification shall be of the issue in effect on the date of invitation for bids.			

APPROVED 5 Feb 1953 REVISED

CUSTODIANS: Army-Signal Corps Navy-Bureau of Ships Air Force	SPECIFICATION SHEET		MIL-E-1/47
	POWER AMPLIFIER PENTODE, RECEIVING		SHEET 1 OF 1
PROCUREMENT SPECIFICATION MIL-E-1	6AK6		

Other interest: Army - CMOT Navy - AMCMdOrS