

N.A.T.O. PRIORITY LIST

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MINISTRY OF SUPPLY - RRE (South)

VALVE ELECTRONIC

CV1762

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

<u>SECURITY</u>	
<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

← Indicates a change

TYPE OF VALVE - Power Pentode				<u>MARKING</u> As K1001/4, except that the RTMA number shall also be clearly marked			
CATHODE - Indirectly-heated							
ENVELOPE - Glass - unmetallised							
PROTOTYPE - 6AK6							
<u>RATING</u>				<u>BASE</u> B7C			
				<u>CONNECTIONS</u>			
				<u>Note</u>			
Heater Voltage (V) 6.3							
Heater Current (A) 0.15							
Max. Anode Voltage (V) 300				A			
Max. Anode Dissipation (W) 3				A			
Max. Screen Voltage (V) 275				A			
Max. Screen Dissipation (W) 0.85							
Mutual Conductance (mA/V) 2.5				B			
Max. Heater-Cathode Voltage (V) 180							
<u>CAPACITANCES (pF)</u>				<u>DIMENSIONS</u>			
C _{g1} 0.12				C			
C _{g1e} 3.6				See K1001/A1/D4			
C _{ae} 4.2							

Z.11983.R.

CV 1762

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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 **Cathode: Coated Unipotential
Element: g1 g3 h h p g2 k **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:		Ihk: 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:		Io2: 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 umhos
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
PROCUREMENT SPECIFICATION
MIL-E-1

SPECIFICATION SHEET

POWER AMPLIFIER PENTODE, RECEIVING

MIL-E-1/47

6AK6

SHEET 1 OF 1

Other interest: Army - CMOT Navy - AMCMdOrS