ELECTRONIC VALVE SPECIFICATION

CV2254 Issue 2 Dated 23.3.56 AMENDMENT No.1

Page A Base

Delete:- See Appendix I to CV2237

Dimensions

Delete: - See Appendix I to CV2237

Signals Radio Development Establishment

December 1961

N.7728

VALVE ELECTRONIC CV 2254

MINISTRY OF SUPPLY (S.R.D.E.)

Specification MOS/CV2254 inco MIL-E-1/281A Issue 2 Dated: 23.3.56. To be read in conjunction wit	SECURITY Specification Valve Unclassified Unclassified					
TYPE OF VALVE: H. F. Pentode, Sharp cut-off CATHODE: Directly heat ENVELOPE: Glass, Metall PROTOTYPE: 5678	35 a GI	MARKING See K1001/4, except that the valve shall only be marked with the CV No., Factory and date code, and "5678".				
Filament Voltage (V) Filament Current (mA) Max. Anode Voltage (V) Max. Screen Voltage (V) Anode Current (mA) Screen Current (mA) Mutual Conductance (mA/V) Anode Impedance (Mn)	Note A A B B B	BASE See App.Ito BS448/B5G/F CV2237 (In line - lead sub-miniature) CONNECTIONS Pin Electrode 1 p red dot 2 g2 3 -f, 1g3, Sd 4 g1 5 +f, 2g3 See Note C				
CAPACITANCE (pF) Cg1p (max.) Cout (nom.) Cin (nom.)	0.01 4.6 3.7		A. O. Diem B C Lead	See BS448 Size refe ENSIONS nches) verall ength	 }	

NOTES

- A. Absolute maximum or minimum values.
- B. Measured at Va = Vg2 = 67.5 Vg1 = 0.
- C. Grid 3 consists of two separate deflector plates, one of which is connected to Pin 3 and the other to Pin 5.

CV2254/2/A

Z.11987.R.

MIL-E-1/281A 4 March 1954 superseding MIL-E-1/281 9 July 1953

INDIVIDUAL MILITARY SPECIFICATION SHEET

ELECTRON TUBE, RECEIVING, PENTODE, TYPE

JAN-5678

This specification sheet forms a part of the latest issue of Military Specification MTL-E-1; Description: Pentode, Sharp Cutoff, Receiving

_	,P outstaing											
Ratings: Absolute Maximum		Eb Vde 100	Ecl Vdc	Ec2 Vdc 75	Rgl Meg	1	lt `t),000					
Test Cond	.: 1.25	67.5	o	67.5	5							
*Height: 1.50 in. max. *Diameter: Major 0.385 in. max. *Base: Pinch Press, 5 leads in line Minor 0.285 in. max.												
##Lead No.: 1 2 3 4 5 ##Cathode: Coated Filament Red sd 2g3 Dot 1g3 Minor 0.285 in. max. ##Cathode: Coated Filament ##Envelope: T-2x3 (8-8) with Metallic Shield Coating												
For miscellaneous requirements, see Paragraph 3.3, Inspection Instructions for Electron Tubes.												
Ref.	Test		Conditio							•		
3.1	Qualification	on Approval			rking		Min.	Maa	ζ.			
4.9.18.1.1	. Carton Drop:	:	(d) Pack Carton S	age Group 1 ize D	;							
4.9.5.3	#Subminiature Fatigue:	Lead					3		arcs			
	**Filament-Pla	te Short:	Note 2									
4.9.19.1	*Vibration:		Rp=10,000)		Ep:		400	mVac			
4.10.8	*Filament Cur	rent:				If:	44	56	mA			
4.10.6.1	†Grid Current	:	Ecl=-0.5V	/dc;Rgl=		Icl:	0	-0.5				
4.10.4.1	Plate Curren	t:				Ib:	1.2	2.4	mAde			
4.10.4.3	*Screen Grid	Current:				Te2.	0.35	·				
4.10.9	*Transconducte	ance(1):	Note 3			Sm:	750	1450	mAdc umhos			
4.10.9	†Transconducts	ince(2):	Ef=1.0V;N	ote 3		Sm:	600	1450	umhos	-		
4.10.9	Transconducts	ince(3):	Ef=1.0Vdc Take read: 15 minutes	ing after		Sm:	600	1450	umhos			
4.10.14	*Capacitance:					Cgp: Cin: Cout:	3.0 3.7	•01 4•4 5•5	uuf uuf uuf			
4.11	Life Test:		Group A			t:	500	-	hrs			
4-11-4	Life Test End	Point:	Transcondu	ctance(1)		Sma:	550		umhos			

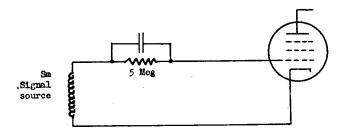
JAN-5678

Page 1 of 2

CV2254

- Note 1: Grid 3 is composed of two separate deflector plates, one of which is connected to Pin 3 and the other to Pin 5.
- Note 2: Raise Ef until filament opens. Test for filament to plate short only. After performance of the filament burn-out test, if the short circuit shall pass in excess of five times the rated filament current without burning out the short circuit, the tube shall be deemed a failure. This test shall be performed by a Service Laboratory on three tubes, which shall be in addition to the required number of qualification approval samples. Manufacturer's data are not required for this test.

Note 3: Test in circuit:



Bypass capacity shall have a reactance of less than 20,000 ohms at the test frequency.

Note 4: Reference specification shall be of the issue in effect on the date of invitation for bid.