

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

Specification MOS/CV 2370 incorporating MIL-E-1/326 Issue 2 dated 27.10.55 To be read in conjunction with K1006				<u>SECURITY</u> <u>Specification</u> <u>Valve</u> Unclassified Unclassified	
—————→ indicates a change					
<u>TYPE OF VALVE:-</u> Power amplifier pentode <u>CATHODE:-</u> Directly heated <u>ENVELOPE:-</u> Glass-unmetallised <u>PROTOTYPE:-</u> 3S4				<u>MARKING</u> See K1001/4 Add:- 3S4	
<u>RATING</u>				<u>BASE</u> BS 448/B7G (miniature button 7 pin)	
				<u>CONNECTIONS</u>	
			Note	Pin	Electrode
Filament voltage (series)	(V)	2.8		1	-f
Filament current (series)	(mA)	50		2	p
Filament voltage (parallel)	(V)	1.4		3	g ₁
Filament current (parallel)	(mA)	100		4	g ₂
Max. anode voltage	(V)	100		5	g ₃ , f _{ct}
Max. screen voltage	(V)	75		6	p
Mutual conductance (mA/V)		1.5		7	+f
Anode impedance (approx.)	(mΩ)	0.1			
Anode current	(mA)	7.4			
Screen current	(mA)	1.4			
Max. cathode current	(mA)	13.0			
<u>NOTES</u> A. Absolute maximum or minimum values. B. Measured at V _a = 90, V _{g2} = 67.5, V _{g1} = -7 C. Pin 1 is -f for V _f = 2.8V. Pin 5 is -f for V _f = 1.4V. when Pins 1 and 7 are +f				<u>DIMENSIONS (Inches)</u> See B.S. 448/B7G/2.1 size ref. No. 2	
				Dimension	Min. Max.
				seated height	- 17/8
				diameter	5/8 3/4
				overall length	- 25/32
				<u>MOUNTING POSITION</u> ANY	

NOTE

- 1. Test code "b" shall apply.

Page 1 of 2

CV 2370

Generic Types:
Test Code:
(General Note)

JAN-134, 3S4
a b

General Note: It will be noted that immediately below each of the type numbers is a letter of the alphabet. It will also be noted that adjacent to requirements, i.e. ratings, test conditions, etc., that a letter or a number of letters appear. This is done so that it is possible to identify immediately those tests that are applicable to a given type or to several types.

Note 1: Applications using this tube type with only half the filament energized are not recommended.

Note 2: Single filament operation with pin 1 open. Repeat with pin 7 open.

Note 3: $E_{bb} = E_{cc2} = 135Vdc$; $E_{c1} = 0$; $R_{g1} = 3.3M\Omega$; $R_p = 0.27M\Omega$; $R_{g2} = 2M\Omega$ (by passed with 0.5 uf capacitor to -f). Remove tube and adjust gain of amplifier for 50mw output with $E_{sig} = 3.00Vac$.

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

CUSTODIANS:
Army-Signal Corps
Navy-Bureau of Ships
Air Force
PROCUREMENT SPECIFICATION
MIL-E-1

SPECIFICATION SHEET

POWER AMPLIFIER PENTODE, RECEIVING
1S4 (3S4)

MIL-E-1/326

SHEET 2 OF 2

Other interest: Army - CMT * Navy - ANCM40rS