

6or12SN7 PreAmp Features & Specifications

Revision 3.0

Date: 03 / 28 / 2024

Dual Mono Design

Input Sensitivity: 1.0 Vrms = Output 6.8 Vrms

Gain: 6.8 / 16.7 dBv

Signal To Noise Ratio: 60 dB @ 1KHz

Input Impedance: (coupling cap C1 in circuit) 100Kohm

(coupling cap C1 bypassed) 83Kohm

Note value will depend on the Alps pot total impedance

Output Impedance: 800 ohm

Power Consumption (preamp): 6.5w + 7.6w (smps)

Tubes: 2 x 6SN7 or 12SN7 GT / GTA / GTB

Note: All tests done with NOS Sylvania JAN 12SN7GTB Mil Spec Brown Base (1967)

Output Power				
Input	Output		Load	Gain
1 Vrms	6.8 Vrms	16.7 dBv	470 Kohm	6.8
2 Vrms	13.6 Vrms			
7 Vrms	47.0 Vrms			

Total Harmonic Distortion			
Frequency	40 Hz	1 KHz	10 KHz
THD	0.11% / -59.3 dBr	0.105% / -59.6 dBr	0.168% / -55.5dBr

Frequency Response		
Full Frequency Response	20 Hz – 20 KHz	-0.40 dBr
Low Frequency Response	12.5 Hz	-1 dBr
High Frequency Response	20 KHz	-0.09 dBr

Output Impedance		
Input	Output	Impedance
1 Vrms @ 1 KHz	6.8Vrms	800 ohm