

IC Audio Preamplifier Comparative Specifications

Parameter	Conditions	THAT1510	THAT1512	SSM2019	INA163	INA217	Units
Equivalent Input Noise	0 dB gain 60 dB gain	57 1	34 1	50 1	60 1	90 1.3	nV/ $\sqrt{\text{Hz}}$
THD	0 dB gain 20 dB gain 40 dB gain 60 dB gain	0.0005 0.0012 0.0016 0.005	0.001 0.004 0.005 0.008	0.005 0.0035 0.0085 0.017	0.0005 0.0006 0.002 0.02	0.0003 0.0006 0.004 0.04	%
Bandwidth -3dB (small signal)	0 dB gain 20 dB gain 40 dB gain 60 dB gain	15 8 7 3	11 9 7 1.6	2 1.6 1 0.2	3.4 — 0.8 —	3.4 — 0.8 —	MHz
Slew Rate		19	19	16	15	15	V/ μs
Supply Voltage	Maximum Minimum	± 20 ± 5	± 20 ± 5	± 18 ± 5	± 18 ± 4.5	± 18 ± 4.5	V
Supply Current	No Signal	6	6	4.6	10	10	mA
Packaging Options	8 pin DIP 8 pin SOIC 14 pin SOIC 16 pin SOIC wide	√ √ √ √	√ √ √ —	√ √ — √	— — √ —	√ — — √	