

Best Op Amp for Lowest Total Noise vs Source Resistance

SOURCE RESISTANCE (NOTE 1)	BEST OP AMP	
	AT LOW FREQ (10Hz)	WIDEBAND (1kHz)
0 to 400 Ω	LT1028/1115	LT1028/1115
400 Ω to 4k Ω	LT1007/1037	LT1028/1115
4k Ω to 40k Ω	LT1001*	LT1007/1037
40k Ω to 500k Ω	LT1012*	LT1001*
500k Ω to 5M Ω	LT1012* or LT1055	LT1012*
> 5M	LT1055	LT1055

Note 1: Source resistance is defined as matched or unmatched, e.g., $R_S = 1k\Omega$ means: 1k Ω at each input, or 1k Ω at one input and zero at the other.

* These op amps are best utilized in applications requiring less bandwidth than audio.