



R5 & C3 determine LPF cutoff
 $1/(2 * \pi * 220 * 22e-12) = 30 \text{ mHz}$

R2 & R5 determine gain

$220/47 = 5x \text{ gain}$

$20 * \log_{10}(220/47) = 13\text{dB gain}$

NOTE: R1 no used,(add if no preamp)

Optional lowpass filter values
 (see 101 Things for details)

16-30 mHz	C5&C7=330pF	C6=470pF	L1&L2=220nH
8-16 mHz	C5&C7=680pF	C6=1nF	L1&L2=330nH
4-8 mHz	C5&C7=1nF	C6=1nF	L1&L2=1uH
2-4 mHz	C5&C7=1.5nF	C6=2.2nF	L1&L2=2.2uH
1-2 mHz	C5&C7=3.3nF	C6=4.7nF	L1&L2=4.7uH

Co:	Little Boards		
Title:	101 Things Preamp/filter		
Board:	PicoPreamp	Revision:	A
Author:	Jim Reagan	Size:	A
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