

PLLXO Calculator*					
Input		Lowpass	Highpass		
Crossover Frequency		150	150	hz	Desired Crossover Point
Amp Input Impedence		30	100	k	Impedence of your amp
First Order					
Select R1		5	5	k	5-10k suggested
C1		221.0485	222.8169	nf	4.76 R1 Ramp
R2=R1'			5.2632	k	C1_lp = C1_hp
Use Ramp as R1 in HP			10.6103	nf	(no R1)
Second Order					
			see note		
R1		5	5	k	Input From Above
C1		221.0485	222.8169	nf	Result
C2		22.1049	31.8310	nf	Result
R2		48	50	k	33.3333 R2 Ramp
R2'			100.0	k	C2_lp = C2_hp
Use Ramp as R2 in HP			10.6103	nf	(no R2)
Note: Making a 2nd order hi-pass can become difficult if HP amp impedance is too low (ie <50k) and if output impedance of preamp is too high. In most situations your XO will only work with the amp ot was designed for. You can use Ramp as R2, to simplify things. In some cases buffer(s) will be required http://www.t-linespeakers.org/tech/filters/passiveHLxo.html Rework by D Dlugos of spreadsheet by dansolow based on formulas and diagrams posted on: * http://www.t-linespeakers.org/tech/filters/passiveHLxo.html					