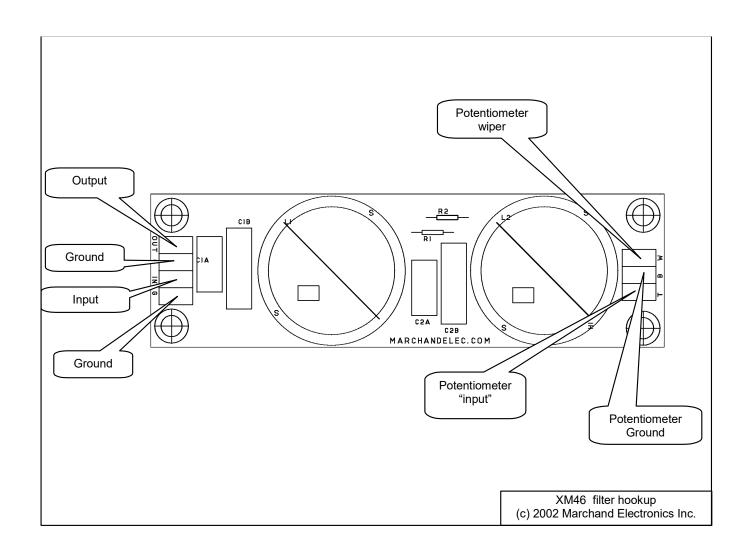


Marchand Electronics Inc.

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XM46 Passive 2-way crossover

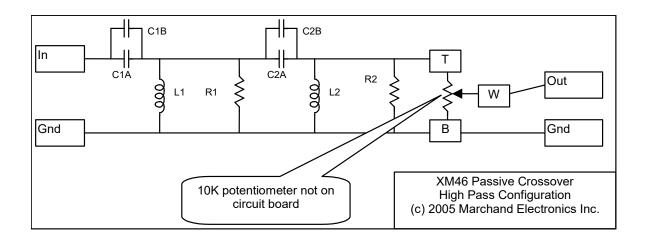


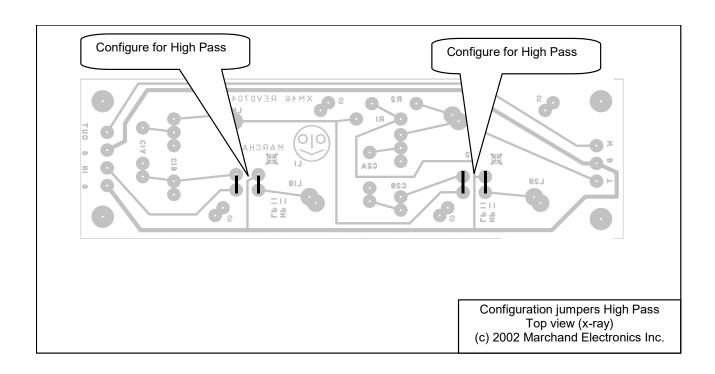


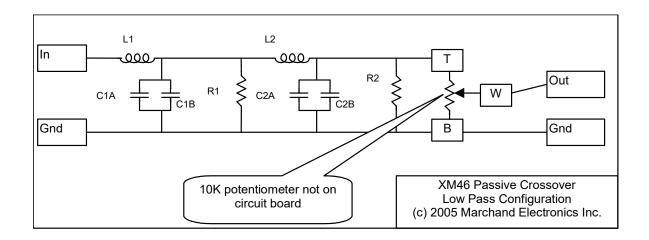
High Pass Component values for 250Hz constant voltage filter, impedance = 1350 Ohm				
C1	.28uF	.22uF + .039uF 2% Polypropylene Capacitor		
C2	.14uF	.10uF + .039uF 2% Polypropylene Capacitor		
L1	1 H	Potcore inductor 1%		
L2	2H	Potcore inductor 1%		
R1	2.00 K	1% metal film resistor		
R2	4.22K	1% metal film resistor		

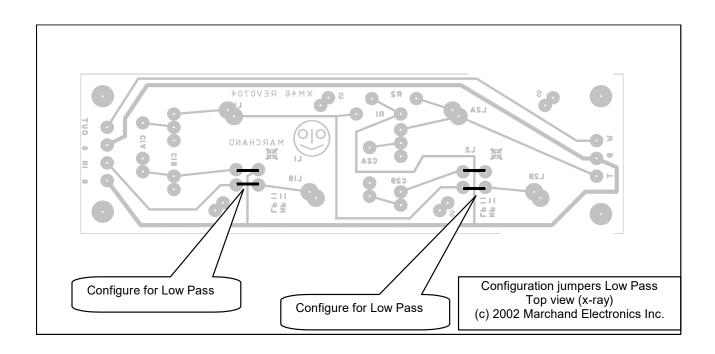
	Low Pass Component values for 250Hz constant voltage filter, impedance = 1350 Ohm					
C1	.4uF	.22uF +0.1uF+ .082uF 2% Polypropylene Capacitor				
C2	.2uF	.10uF + .10uF 2% Polypropylene Capacitor				
L1	1.4H	Potcore inductor 1%				
L2	2.8h	Potcore inductor 1%				
R1	2.00 K	1% metal film resistor				
R2	4.22K	1% metal film resistor				

	Custom design worksh	eet	
	High Pass Component values for	Hz filter	
C1	Polypropylene Capacitor C1A=	C1B=	
C2	Polypropylene Capacitor C2A=	C2B=	
L1	Potcore inductor 1%		
L2	Potcore inductor 1%		
R1	1% metal film resistor		
R2	1% metal film resistor		
	Low Pass Component values for	Hz filter	
C1	Polypropylene Capacitor C1A=	C1B=	
C2	Polypropylene Capacitor C2A=	C2B=	
L1	Potcore inductor 1%		
L2	Potcore inductor 1%		
R1	1% metal film resistor		
R2	1% metal film resistor		









Assembly Instructions.

1: Configure board for High-Pass or Low-Pass.

Using bare wire install 4 jumpers on each circuit board.

The board can be configured for high-pass or low pass with these jumpers.

See picture for direction of jumpers.

2: Installation of potcore inductors.

Secure the inductors to the circuit board using nylon bolt and nut.

Use a fiber washer between inductor and circuit board.

Solder the two leads of each of the inductors to the pads on the circuit board.

For best result use some glue (like silicone glue) between inductor and circuit board.

Note: make sure the potcore inductor does not touch the configuration jumpers.

The ferrite material of the potcore is conductive.

3: Remaining parts.

The terminal blocks, capacitors and resistors are installed in the usual way.

4: Level control.

A level control potentiometer or attenuator can be installed at the terminal block labeled T-W-B.

The value of the potentiometer is typically 10 Kohm.

If no potentiometer is used connect a jumper wire between terminals T and W and also connect a 10 Kohm resistor between terminals T and B.