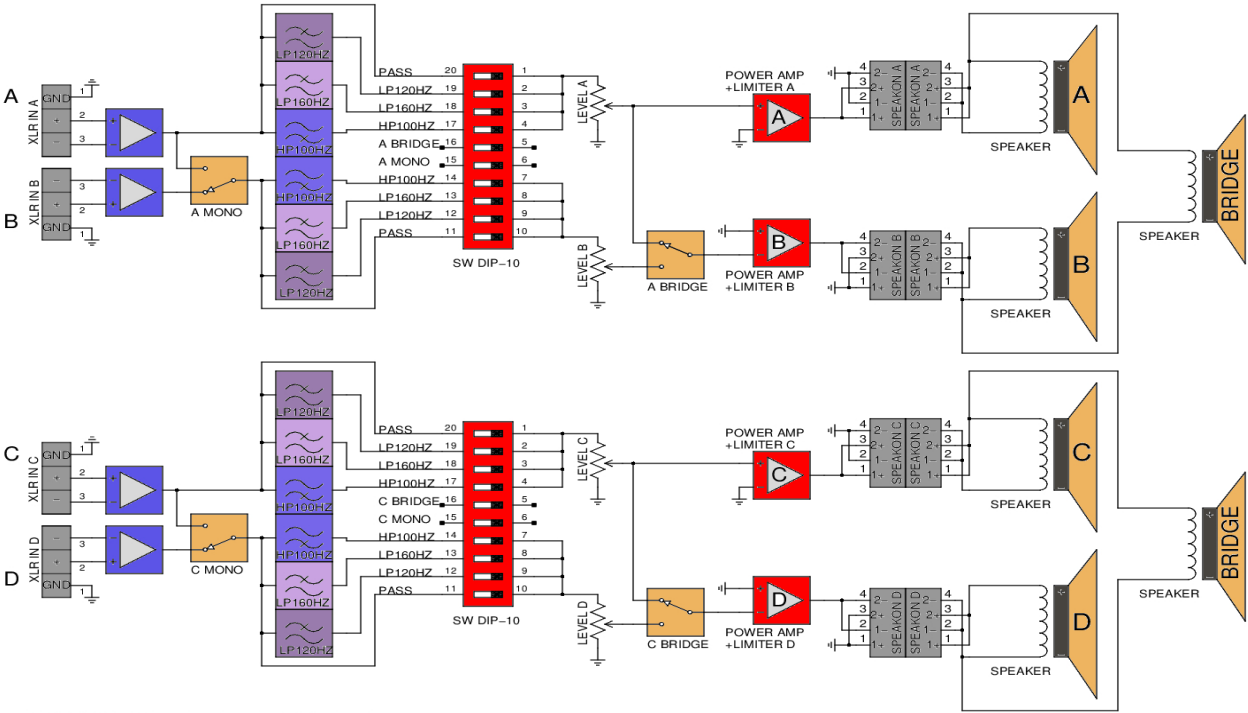




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LC Universal Line Series | Four Channel Power Amplifiers

HELP FOR FILTER SETTINGS OF LC Universal line amplifiers



PKN AUDIO LCU 4 channel amplifiers signal chain schematics

1. Full range four independent channels mode

Dominant inputs: A B C D
Outputs: A B C D
Gain controls: A B C D

A					B					C					D				
FULL	LP120Hz	LP160Hz	H160Hz	A BRIDGE	A MONO	HP160Hz	LP160Hz	LP120Hz	FULL	FULL	LP120Hz	LP160Hz	HP160Hz	C BRIDGE	C MONO	HP160Hz	LP160Hz	LP120Hz	FULL
1									1	1									1
	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	

2. Two inputs full range four independent channels mode

Dominant inputs: A C
Outputs: A B C D
Gain controls: A B C D

A					B					C					D				
FULL	LP120Hz	LP160Hz	HP160Hz	A BRIDGE	A MONO	HP160Hz	LP160Hz	LP120Hz	FULL	FULL	LP120Hz	LP160Hz	HP160Hz	C BRIDGE	C MONO	HP160Hz	LP160Hz	LP120Hz	FULL
1					1				1	1					1				1
	0	0	0	0		0	0	0			0	0	0	0		0	0	0	

3. Stereo two ways 160Hz xover frequency mode

Dominant inputs: A C (where A shall means Left, while C shall means Right sides)

Outputs: A B C D

Gain controls: A B C D

A					B					C					D				
FULL	LP120Hz	LP160Hz	HP160Hz	A BRIDGE	A MONO	HP160Hz	LP160Hz	LP120Hz	FULL	FULL	LP120Hz	LP160Hz	HP160Hz	C BRIDGE	C MONO	HP160Hz	LP160Hz	LP120Hz	FULL
		1			1	1						1			1	1			
0	0		0	0			0	0	0	0	0		0	0			0	0	0

CH A output: LowPass160Hz (Left side Low speaker)

CH B output: HighPass160Hz (Left side Mid-High speaker)

CH C output: LowPass160Hz (Right side Low speaker)

CH D output: HighPass160Hz (Right side Mid-High speaker)

4. Double Bridged full-range mode with two inputs*

Dominant inputs: A C (where A shall means Left, while C shall means Right sides)

Outputs: A B C D

Gain controls: A C

A					B					C					D				
FULL	LP120Hz	LP160Hz	HP160Hz	A BRIDGE	A MONO	HP160Hz	LP160Hz	LP120Hz	FULL	FULL	LP120Hz	LP160Hz	HP160Hz	C BRIDGE	C MONO	HP160Hz	LP160Hz	LP120Hz	FULL
1				1						1				1					
	0	0	0		0	0	0	0	0		0	0	0		0	0	0	0	0

5. Stereo two ways + Bridged single channel 160Hz xover frequency mode

Dominant inputs: A C D (where A shall means L+R, C means Left while D shall means Right sides)

Outputs: A B C D

Gain controls: A C D

A					B					C					D				
FULL	LP120Hz	LP160Hz	HP160Hz	A BRIDGE	A MONO	HP160Hz	LP160Hz	LP120Hz	FULL	FULL	LP120Hz	LP160Hz	HP160Hz	C BRIDGE	C MONO	HP160Hz	LP160Hz	LP120Hz	FULL
		1		1									1			1			
0	0		0		0	0	0	0	0	0	0		0	0		0	0	0	0

CH A&B output: LowPass160Hz (Low speaker)

CH C output: HighPass160Hz (Left side Mid-High speaker)

CH D output: HighPass160Hz (Right side Mid-High speaker)

* Important notice: Please read and understand carefully the specifications and power ratings of your speakers. Operating in bridged mode may exceeds the capabilities of certain type of speakers which may results in speaker and/or other equipment damage.
PKN Audio has no any responsibility in case of speaker, load or other failures due improper setup of system.

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