

JBL MD46 Loudspeaker**DSP Parameters For BSS London Processors**

Optimized for 48kHz sample rate

September 23, 2011

	LF (Full-Range)	LF (With Subwoofer)	MF	HF	UHF
High Pass Type	48 dB/oct Linkwitz-Riley	48 dB/oct Linkwitz-Riley	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth
High Pass Frequency	45 Hz	80 Hz	260 Hz	2.60 kHz	12.50 kHz
Low Pass Type	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth	
Low Pass Frequency	250 Hz	250 Hz	2.40 kHz	10.00 kHz	
2nd High Pass Type			12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth
High Pass Frequency			260 Hz	2.60 kHz	12.50 kHz
2nd Low Pass Type	12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth	
Low Pass Frequency	250 Hz	250 Hz	2.40 kHz	10.00 kHz	
Bandpass Gain	+8.0 dB	+8.0 dB	+5.0 dB	+1.0 dB	+1.0 dB
Output Polarity	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting
Output Delay	2.094 ms	2.094 ms	0.000 ms	0.198 ms	0.740 ms
Filter #1 Type	Bell	Bell	Bell	Bell	Bell
Filter #1 Frequency	85 Hz	75 Hz	239 Hz	3.27 kHz	16.00 kHz
Filter #1 Gain	-0.9 dB	-4.0 dB	-5.3 dB	-6.9 dB	+0.8 dB
Filter #1 Width	0.60 oct	0.58 oct	1.19 oct	0.90 oct	0.18 oct
Filter #2 Type	Bell	Bell	Bell	Bell	Bell
Filter #2 Frequency	155 Hz	181 Hz	693 Hz	2.76 kHz	18.00 kHz
Filter #2 Gain	-3.6 dB	-3.5 dB	-5.2 dB	-1.5 dB	+4.8 dB
Filter #2 Width	0.90 oct	0.59 oct	0.54 oct	0.33 oct	0.30 oct
Filter #3 Type	Bell	Bell	Bell	Bell	Bell
Filter #3 Frequency	220 Hz	115 Hz	1.06 kHz	8.00 kHz	11.70 kHz
Filter #3 Gain	-1.4 dB	+1.6 dB	-5.3 dB	-3.4 dB	-0.8 dB
Filter #3 Width	0.30 oct	0.23 oct	0.41 oct	0.17 oct	0.23 oct
Filter #4 Type	Bell	Bell	Bell	Bell	Bell
Filter #4 Frequency	250 Hz	140 Hz	344 Hz	2.38 kHz	13.60 kHz
Filter #4 Gain	+3.0 dB	-1.6 dB	-4.4 dB	-3.5 dB	-3.5 dB
Filter #4 Width	0.65 oct	0.39 oct	0.40 oct	2.39 oct	0.15 oct
Filter #5 Type	Bell	Bell	Bell	Bell	Bell
Filter #5 Frequency	60 Hz	220 Hz	1.74 kHz	2.60 kHz	8.00 kHz
Filter #5 Gain	+0.3 dB	-1.5 dB	-6.8 dB	+3.0 dB	+7.0 dB
Filter #5 Width	0.40 oct	0.16 oct	0.27 oct	0.65 oct	0.70 oct
Filter #6 Type		Bell	Bell	Bell	
Filter #6 Frequency		250 Hz	2.11 kHz	16.00 kHz	
Filter #6 Gain		+3.0 dB	-4.5 dB	+6.0 dB	
Filter #6 Width		0.65 oct	0.11 oct	0.55 oct	
Filter #7 Type			Bell		
Filter #7 Frequency			2.30 kHz		
Filter #7 Gain			+2.7 dB		
Filter #7 Width			0.30 oct		
Filter #8 Type			Bell		
Filter #8 Frequency			3.20 kHz		
Filter #8 Gain			-2.8 dB		
Filter #8 Width			0.29 oct		
Filter #9 Type			Bell		
Filter #9 Frequency			260 Hz		
Filter #9 Gain			+3.0 dB		
Filter #9 Width			0.65 oct		
Filter #10 Type			Bell		
Filter #10 Frequency			2.40 kHz		
Filter #10 Gain			+3.0 dB		
Filter #10 Width			0.65 oct		
Limiter Amp Voltage	+41.0 dBu	+41.0 dBu	+38.0 dBu	+31.0 dBu	+29.0 dBu
Amplifier Gain	+26.0 dB	+26.0 dB	+26.0 dB	+26.0 dB	+26.0 dB
Limiter Threshold	+15.0 dBu	+15.0 dBu	+12.0 dBu	+5.0 dBu	+3.0 dBu
Limiter Attack	Auto	Auto	Auto	Auto	Auto
Limiter Release	Auto	Auto	Auto	Auto	Auto

JBL MD46 Loudspeaker**DSP Parameters For BSS London Processors**

Optimized for 96kHz sample rate

September 23, 2011

	LF (Full-Range)	LF (With Subwoofer)	MF	HF	UHF
High Pass Type	48 dB/oct Linkwitz-Riley	48 dB/oct Linkwitz-Riley	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth
High Pass Frequency	45 Hz	80 Hz	260 Hz	2.60 kHz	12.50 kHz
Low Pass Type	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth	
Low Pass Frequency	250 Hz	250 Hz	2.40 kHz	10.00 kHz	
2nd High Pass Type			12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth
High Pass Frequency			260 Hz	2.60 kHz	12.50 kHz
2nd Low Pass Type	12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth	
Low Pass Frequency	250 Hz	250 Hz	2.40 kHz	10.00 kHz	
Bandpass Gain	+8.0 dB	+8.0 dB	+5.0 dB	+1.0 dB	+1.0 dB
Output Polarity	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting
Output Delay	2.094 ms	2.094 ms	0.000 ms	0.198 ms	0.740 ms
Filter #1 Type	Bell	Bell	Bell	Bell	Bell
Filter #1 Frequency	85 Hz	75 Hz	239 Hz	3.27 kHz	16.00 kHz
Filter #1 Gain	-0.9 dB	-4.0 dB	-5.3 dB	-6.9 dB	+0.8 dB
Filter #1 Width	0.60 oct	0.58 oct	1.19 oct	0.90 oct	0.18 oct
Filter #2 Type	Bell	Bell	Bell	Bell	Bell
Filter #2 Frequency	155 Hz	181 Hz	693 Hz	2.76 kHz	18.00 kHz
Filter #2 Gain	-3.6 dB	-3.5 dB	-5.2 dB	-1.5 dB	+4.8 dB
Filter #2 Width	0.90 oct	0.59 oct	0.54 oct	0.33 oct	0.30 oct
Filter #3 Type	Bell	Bell	Bell	Bell	Bell
Filter #3 Frequency	220 Hz	115 Hz	1.06 kHz	8.00 kHz	11.70 kHz
Filter #3 Gain	-1.4 dB	+1.6 dB	-5.3 dB	-3.4 dB	-0.8 dB
Filter #3 Width	0.30 oct	0.23 oct	0.41 oct	0.17 oct	0.23 oct
Filter #4 Type	Bell	Bell	Bell	Bell	Bell
Filter #4 Frequency	250 Hz	140 Hz	344 Hz	2.38 kHz	13.60 kHz
Filter #4 Gain	+3.0 dB	-1.6 dB	-4.4 dB	-3.5 dB	-3.5 dB
Filter #4 Width	0.65 oct	0.39 oct	0.40 oct	2.39 oct	0.15 oct
Filter #5 Type	Bell	Bell	Bell	Bell	Bell
Filter #5 Frequency	60 Hz	220 Hz	1.74 kHz	2.60 kHz	12.50 kHz
Filter #5 Gain	+3.0 dB	-1.5 dB	-6.8 dB	+3.0 dB	+3.0 dB
Filter #5 Width	0.40 oct	0.16 oct	0.27 oct	0.65 oct	0.65 oct
Filter #6 Type		Bell	Bell	Bell	
Filter #6 Frequency		250 Hz	2.11 kHz	10.00 kHz	
Filter #6 Gain		+3.0 dB	-4.5 dB	+3.0 dB	
Filter #6 Width		0.65 oct	0.11 oct	0.65 oct	
Filter #7 Type			Bell		
Filter #7 Frequency			2.30 kHz		
Filter #7 Gain			+2.7 dB		
Filter #7 Width			0.30 oct		
Filter #8 Type			Bell		
Filter #8 Frequency			3.20 kHz		
Filter #8 Gain			-2.8 dB		
Filter #8 Width			0.29 oct		
Filter #9 Type			Bell		
Filter #9 Frequency			260 Hz		
Filter #9 Gain			+3.0 dB		
Filter #9 Width			0.65 oct		
Filter #10 Type			Bell		
Filter #10 Frequency			2.40 kHz		
Filter #10 Gain			+3.0 dB		
Filter #10 Width			0.65 oct		
Limiter Amp Voltage	+41.0 dBu	+41.0 dBu	+38.0 dBu	+31.5 dBu	+30.5 dBu
Amplifier Gain	+26.0 dB	+26.0 dB	+26.0 dB	+26.0 dB	+26.0 dB
Limiter Threshold	+15.0 dBu	+15.0 dBu	+12.0 dBu	+5.5 dBu	+4.5 dBu
Limiter Attack	Auto	Auto	Auto	Auto	Auto
Limiter Release	Auto	Auto	Auto	Auto	Auto

JBL MD49 Loudspeaker**DSP Parameters For BSS London Processors**

Optimized for 48kHz sample rate

September 23, 2011

	LF (Full-Range)	LF (With Subwoofer)	MF	HF	UHF
High Pass Type	48 dB/oct Linkwitz-Riley	48 dB/oct Linkwitz-Riley	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth
High Pass Frequency	45 Hz	80 Hz	270 Hz	2.85 kHz	12.50 kHz
Low Pass Type	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth	
Low Pass Frequency	250 Hz	250 Hz	2.70 kHz	10.00 kHz	
2nd High Pass Type			12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth
High Pass Frequency			270 Hz	2.85 kHz	12.50 kHz
2nd Low Pass Type	12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth	
Low Pass Frequency	250 Hz	250 Hz	2.70 kHz	10.00 kHz	
Bandpass Gain	+8.0 dB	+8.0 dB	+5.0 dB	+1.0 dB	+1.0 dB
Output Polarity	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting
Output Delay	2.094 ms	2.094 ms	0.302 ms	0.625 ms	1.042 ms
Filter #1 Type	Bell	Bell	Bell	Bell	Bell
Filter #1 Frequency	85 Hz	75 Hz	356 Hz	3.80 kHz	16.00 kHz
Filter #1 Gain	-0.9 dB	-4.5 dB	-5.0 dB	-6.7 dB	+5.7 dB
Filter #1 Width	0.60 oct	0.77 oct	0.18 oct	0.38 oct	0.55 oct
Filter #2 Type	Bell	Bell	Bell	Bell	Bell
Filter #2 Frequency	155 Hz	181 Hz	808 Hz	2.85 kHz	14.20 kHz
Filter #2 Gain	-3.6 dB	-3.5 dB	-6.7 dB	-4.2 dB	-6.5 dB
Filter #2 Width	0.90 oct	0.80 oct	0.47 oct	0.21 oct	0.39 oct
Filter #3 Type	Bell	Bell	Bell	Bell	Bell
Filter #3 Frequency	220 Hz	115 Hz	1.18 kHz	3.20 kHz	18.00 kHz
Filter #3 Gain	-1.4 dB	+1.5 dB	-3.3 dB	-2.8 dB	+4.5 dB
Filter #3 Width	0.30 oct	0.48 oct	0.35 oct	0.12 oct	0.27 oct
Filter #4 Type	Bell	Bell	Bell	Bell	Bell
Filter #4 Frequency	250 Hz	140 Hz	1.88 kHz	4.90 kHz	12.80 kHz
Filter #4 Gain	+3.0 dB	-1.7 dB	-5.5 dB	-2.8 dB	-1.0 dB
Filter #4 Width	0.65 oct	0.30 oct	0.26 oct	0.24 oct	0.41 oct
Filter #5 Type	Bell	Bell	Bell	Bell	Bell
Filter #5 Frequency	60 Hz	220 Hz	440 Hz	7.50 kHz	10.50 kHz
Filter #5 Gain	+0.3 dB	-0.5 dB	-4.5 dB	-2.0 dB	+1.0 dB
Filter #5 Width	0.40 oct	0.30 oct	0.25 oct	0.19 oct	0.21 oct
Filter #6 Type		Bell	Bell	Bell	Bell
Filter #6 Frequency		250 Hz	562 Hz	2.20 kHz	8.00 kHz
Filter #6 Gain		+3.0 dB	-2.0 dB	+1.0 dB	+7.0 dB
Filter #6 Width		0.65 oct	0.45 oct	0.48 oct	0.70 oct
Filter #7 Type			Bell	Bell	
Filter #7 Frequency			270 Hz	2.85 kHz	
Filter #7 Gain			+3.0 dB	+3.0 dB	
Filter #7 Width			0.65 oct	0.65 oct	
Filter #8 Type			Bell	Bell	
Filter #8 Frequency			2.70 kHz	16.00 kHz	
Filter #8 Gain			+3.0 dB	+6.0 dB	
Filter #8 Width			0.65 oct	0.55 oct	
Limiter Amp Voltage	+41.0 dBu	+41.0 dBu	+38.0 dBu	+31.0 dBu	+29.0 dBu
Amplifier Gain	+26.0 dB	+26.0 dB	+26.0 dB	+26.0 dB	+26.0 dB
Limiter Threshold	+15.0 dBu	+15.0 dBu	+12.0 dBu	+5.0 dBu	+3.0 dBu
Limiter Attack	Auto	Auto	Auto	Auto	Auto
Limiter Release	Auto	Auto	Auto	Auto	Auto

JBL MD49 Loudspeaker**DSP Parameters For BSS London Processors**

Optimized for 96kHz sample rate

September 23, 2011

	LF (Full-Range)	LF (With Subwoofer)	MF	HF	UHF
High Pass Type	48 dB/oct Linkwitz-Riley	48 dB/oct Linkwitz-Riley	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth
High Pass Frequency	45 Hz	80 Hz	270 Hz	2.85 kHz	12.50 kHz
Low Pass Type	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth	24 dB/oct Butterworth	
Low Pass Frequency	250 Hz	250 Hz	2.70 kHz	10.00 kHz	
2nd High Pass Type			12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth
High Pass Frequency			270 Hz	2.85 kHz	12.50 kHz
2nd Low Pass Type	12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth	12 dB/oct Butterworth	
Low Pass Frequency	250 Hz	250 Hz	2.70 kHz	10.00 kHz	
Bandpass Gain	+8.0 dB	+8.0 dB	+5.0 dB	+1.0 dB	+1.0 dB
Output Polarity	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting
Output Delay	2.094 ms	2.094 ms	0.302 ms	0.625 ms	1.042 ms
Filter #1 Type	Bell	Bell	Bell	Bell	Bell
Filter #1 Frequency	85 Hz	75 Hz	356 Hz	3.80 kHz	16.00 kHz
Filter #1 Gain	-0.9 dB	-4.5 dB	-5.0 dB	-6.7 dB	+5.7 dB
Filter #1 Width	0.60 oct	0.77 oct	0.18 oct	0.38 oct	0.55 oct
Filter #2 Type	Bell	Bell	Bell	Bell	Bell
Filter #2 Frequency	155 Hz	181 Hz	808 Hz	2.85 kHz	14.20 kHz
Filter #2 Gain	-3.6 dB	-3.5 dB	-6.7 dB	-4.2 dB	-6.5 dB
Filter #2 Width	0.90 oct	0.80 oct	0.47 oct	0.21 oct	0.39 oct
Filter #3 Type	Bell	Bell	Bell	Bell	Bell
Filter #3 Frequency	220 Hz	115 Hz	1.18 kHz	3.20 kHz	18.00 kHz
Filter #3 Gain	-1.4 dB	+1.5 dB	-3.3 dB	-2.8 dB	+5.0 dB
Filter #3 Width	0.30 oct	0.48 oct	0.35 oct	0.12 oct	0.27 oct
Filter #4 Type	Bell	Bell	Bell	Bell	Bell
Filter #4 Frequency	250 Hz	140 Hz	1.88 kHz	4.90 kHz	12.80 kHz
Filter #4 Gain	+3.0 dB	-1.7 dB	-5.5 dB	-2.8 dB	-1.0 dB
Filter #4 Width	0.65 oct	0.30 oct	0.26 oct	0.24 oct	0.41 oct
Filter #5 Type	Bell	Bell	Bell	Bell	Bell
Filter #5 Frequency	60 Hz	220 Hz	440 Hz	7.50 kHz	10.50 kHz
Filter #5 Gain	+0.3 dB	-0.5 dB	-4.5 dB	-2.0 dB	+1.0 dB
Filter #5 Width	0.40 oct	0.30 oct	0.25 oct	0.19 oct	0.21 oct
Filter #6 Type		Bell	Bell	Bell	Bell
Filter #6 Frequency		250 Hz	562 Hz	2.20 kHz	12.50 kHz
Filter #6 Gain		+3.0 dB	-2.0 dB	+1.0 dB	+3.0 dB
Filter #6 Width		0.65 oct	0.45 oct	0.48 oct	0.65 oct
Filter #7 Type			Bell	Bell	
Filter #7 Frequency			270 Hz	2.85 kHz	
Filter #7 Gain			+3.0 dB	+3.0 dB	
Filter #7 Width			0.65 oct	0.65 oct	
Filter #8 Type			Bell	Bell	
Filter #8 Frequency			2.70 kHz	10.00 kHz	
Filter #8 Gain			+3.0 dB	+3.0 dB	
Filter #8 Width			0.65 oct	0.65 oct	
Limiter Amp Voltage	+41.0 dBu	+41.0 dBu	+38.0 dBu	+31.5 dBu	+30.5 dBu
Amplifier Gain	+26.0 dB	+26.0 dB	+26.0 dB	+26.0 dB	+26.0 dB
Limiter Threshold	+15.0 dBu	+15.0 dBu	+12.0 dBu	+5.5 dBu	+4.5 dBu
Limiter Attack	Auto	Auto	Auto	Auto	Auto
Limiter Release	Auto	Auto	Auto	Auto	Auto

JBL MD46 Loudspeaker**DSP Parameters For Crown I-Tech HD Amplifiers**

January 17, 2012

	LF (Full-Range)	LF (With Subwoofer)	MF	HF	UHF
High Pass Family	IIR	IIR	IIR	IIR	IIR
High Pass Type	Linkwitz-Riley 48 dB/oct	Linkwitz-Riley 48 dB/oct	Butterworth 36 dB/oct	Butterworth 36 dB/oct	Butterworth 36 dB/oct
High Pass Frequency	45 Hz	80 Hz	260 Hz	2.60 kHz	12.50 kHz
Low Pass Family	IIR	IIR	IIR	IIR	
Low Pass Type	Butterworth 36 dB/oct	Butterworth 36 dB/oct	Butterworth 36 dB/oct	Butterworth 36 dB/oct	
Low Pass Frequency	250 Hz	250 Hz	2.40 kHz	10.00 kHz	
Bandpass Gain	+8.0 dB	+8.0 dB	+5.0 dB	+1.0 dB	+1.0 dB
Output Polarity	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting
Output Delay	2.110 ms	2.110 ms	0.000 ms	0.200 ms	0.745 ms
Filter #1 Type	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ
Filter #1 Frequency	85 Hz	75 Hz	239 Hz	3.27 kHz	16.00 kHz
Filter #1 Gain	-1.0 dB	-4.0 dB	-5.3 dB	-6.9 dB	+1.0 dB
Filter #1 Q	2.14 Q	2.35 Q	1.12 Q	1.56 Q	8.00 Q
Filter #2 Type	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ
Filter #2 Frequency	155 Hz	181 Hz	693 Hz	2.76 kHz	18.00 kHz
Filter #2 Gain	-0.4 dB	-3.5 dB	-5.2 dB	-1.5 dB	+5.0 dB
Filter #2 Q	1.38 Q	2.30 Q	2.32 Q	4.00 Q	4.00 Q
Filter #3 Type	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ
Filter #3 Frequency	220 Hz	115 Hz	1.06 kHz	8.00 kHz	11.73 kHz
Filter #3 Gain	-1.5 dB	+1.4 dB	-5.3 dB	-3.5 dB	-1.0 dB
Filter #3 Q	4.00 Q	5.60 Q	3.15 Q	6.52 Q	6.37 Q
Filter #4 Type		Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ
Filter #4 Frequency		140 Hz	344 Hz	2.38 kHz	13.64 kHz
Filter #4 Gain		-1.6 dB	-4.4 dB	-3.5 dB	-3.5 dB
Filter #4 Q		3.42 Q	2.97 Q	0.54 Q	8.00 Q
Filter #5 Type		Parametric EQ	Parametric EQ		
Filter #5 Frequency		220 Hz	1.74 kHz		
Filter #5 Gain		-1.6 dB	-6.8 dB		
Filter #5 Q		7.70 Q	4.82 Q		
Filter #6 Type			Parametric EQ		
Filter #6 Frequency			2.11 kHz		
Filter #6 Gain			-4.5 dB		
Filter #6 Q			11.68 Q		
Filter #7 Type			Parametric EQ		
Filter #7 Frequency			2.30 kHz		
Filter #7 Gain			+2.5 dB		
Filter #7 Q			5.00 Q		
Filter #8 Type			Parametric EQ		
Filter #8 Frequency			3.20 kHz		
Filter #8 Gain			-2.8 dB		
Filter #8 Q			5.00 Q		
Limiter Peak Threshold	Auto	Auto	Auto	Auto	Auto
Limiter Peak Release	Auto	Auto	Auto	Auto	Auto
Limiter RMS Threshold	77.0 V	77.0 V	46.0 V	20.0 V	18.0 V
Limiter RMS Release	Auto	Auto	Auto	Auto	Auto
Thermal Voltage	65.0 V	65.0 V	39.0 V	17.0 V	15.0 V
Thermal Response Time	8.0 s	8.0 s	3.0 s	1.0 s	1.0 s

JBL MD49 Loudspeaker**DSP Parameters For Crown I-Tech HD Amplifiers**

January 17, 2012

	LF (Full-Range)	LF (With Subwoofer)	MF	HF	UHF
High Pass Family	IIR	IIR	IIR	IIR	IIR
High Pass Type	Linkwitz-Riley 48 dB/oct	Linkwitz-Riley 48 dB/oct	Butterworth 36 dB/oct	Butterworth 36 dB/oct	Butterworth 36 dB/oct
High Pass Frequency	45 Hz	80 Hz	270 Hz	2.85 kHz	12.50 kHz
Low Pass Family	IIR	IIR	IIR	IIR	
Low Pass Type	Butterworth 36 dB/oct	Butterworth 36 dB/oct	Butterworth 36 dB/oct	Butterworth 36 dB/oct	
Low Pass Frequency	250 Hz	250 Hz	2.70 kHz	10.00 kHz	
Bandpass Gain	+8.0 dB	+8.0 dB	+5.0 dB	+1.0 dB	+1.0 dB
Output Polarity	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting	(+) Non-inverting
Output Delay	2.110 ms	2.110 ms	0.310 ms	0.635 ms	1.050 ms
Filter #1 Type	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ
Filter #1 Frequency	85 Hz	75 Hz	356 Hz	3.80 kHz	16.00 kHz
Filter #1 Gain	-1.0 dB	-4.5 dB	-5.0 dB	-6.7 dB	+5.7 dB
Filter #1 Q	2.14 Q	1.84 Q	5.92 Q	3.47 Q	2.60 Q
Filter #2 Type	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ
Filter #2 Frequency	155 Hz	181 Hz	808 Hz	2.85 kHz	14.20 kHz
Filter #2 Gain	-3.5 dB	-3.3 dB	-6.7 dB	-4.2 dB	-6.5 dB
Filter #2 Q	1.38 Q	1.66 Q	2.69 Q	6.00 Q	4.00 Q
Filter #3 Type	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ
Filter #3 Frequency	220 Hz	115 Hz	1.06 kHz	8.00 kHz	11.73 kHz
Filter #3 Gain	-1.5 dB	+1.4 dB	-5.3 dB	-3.5 dB	-1.0 dB
Filter #3 Q	4.00 Q	5.60 Q	3.15 Q	6.52 Q	6.37 Q
Filter #4 Type		Parametric EQ	Parametric EQ	Parametric EQ	Parametric EQ
Filter #4 Frequency		140 Hz	344 Hz	2.38 kHz	13.64 kHz
Filter #4 Gain		-1.6 dB	-4.4 dB	-3.5 dB	-3.5 dB
Filter #4 Q		3.42 Q	2.97 Q	0.54 Q	8.00 Q
Filter #5 Type		Parametric EQ	Parametric EQ		
Filter #5 Frequency		220 Hz	1.74 kHz		
Filter #5 Gain		-1.6 dB	-6.8 dB		
Filter #5 Q		7.70 Q	4.82 Q		
Filter #6 Type			Parametric EQ		
Filter #6 Frequency			2.11 kHz		
Filter #6 Gain			-4.5 dB		
Filter #6 Q			11.68 Q		
Filter #7 Type			Parametric EQ		
Filter #7 Frequency			2.30 kHz		
Filter #7 Gain			+2.5 dB		
Filter #7 Q			5.00 Q		
Filter #8 Type			Parametric EQ		
Filter #8 Frequency			3.20 kHz		
Filter #8 Gain			-2.8 dB		
Filter #8 Q			5.00 Q		
Limiter Peak Threshold	Auto	Auto	Auto	Auto	Auto
Limiter Peak Release	Auto	Auto	Auto	Auto	Auto
Limiter RMS Threshold	77.0 V	77.0 V	46.0 V	20.0 V	18.0 V
Limiter RMS Release	Auto	Auto	Auto	Auto	Auto
Thermal Voltage	65.0 V	65.0 V	39.0 V	17.0 V	15.0 V
Thermal Response Time	8.0 s	8.0 s	3.0 s	1.0 s	1.0 s