

Processor Settings

Model LS9900 / LS9900T

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	Frequency	Slope
LF w/o subwoofer - HPF	40Hz	24dB Oct. Butterworth
LF w/subwoofer - HPF	80Hz	24dB Oct. Butterworth
LF - LPF	315Hz	24dB Oct. Linkwitz/Riley
MF - HPF	315Hz	24dB Oct. Linkwitz/Riley
MF - LPF	1,410Hz	24dB Oct. Linkwitz/Riley
HF - HPF	1,410Hz	24dB Oct. Linkwitz/Riley

Equalization	Frequency	BW*	Q	Level	Equalization Settings were developed
LF	165Hz	.5	2.87	-4dB	in an anechoic environment
MF	908Hz	.35	4.1	-9dB	
HF	2,245Hz	.25	5.76	-3dB	
HF	16.000Hz	5	2 87	+4dB	

Delay	Time	Polarity
LF	none	positive
MF	none	positive
HF	.41 msec	positive

Some DSP units will change the propagation delay for each output depending on how much processing is on that channel

Limiting RMS Voltage

See Application Note "Setting System Limiters"

LF 64 Volts, 45 msec attack, 720 msec release, 100:1 ratio (recommended predictive peak stop @ 126 Volts or amp clipping)
MF 89 Volts, 2 msec attack, 32 msec release, 100:1 ratio (recommended predictive peak stop @ 178 Volts or amp clipping)
HF 40 Volts, 30 msec attack, 480 msec release, 100:1 ratio (recommended predictive peak stop @ 100 Volts or amp clipping)

Gain		Assumes amplifiers
LF	0	have equal voltage gain
MF	0	
HF	-34B	

* BW Disclaimer

Different DSP processor manufactures are not consistent in their implementation of digital parametric EQs. The SLS recommended filters will not be replicated by all DSP devices. If the DSP device that is used continuously varies the Q value of the filter depending on the +/- dB level, the DSP will not match our settings. (Most of these devices do not allow filter Q to be shown at all.)