



Processor Settings
Cinema System 1

Crossover

	Frequency	Slope
CSB115 - HPF	40Hz	12dB Oct. Butterworth
CSB115 - LPF	500Hz	24dB Oct. Linkwitz/Riley
CS200 - HPF	500Hz	24dB Oct. Linkwitz/Riley

Equalization

	Frequency	BW*	Q	Level
LF	280Hz	.5	2.87	-5dB
LF	400Hz	.333	4.32	-2dB
LF	690Hz	.333	4.32	-6dB
HF/MF	920Hz	.12	11.54	+3dB
HF/MF	1,680Hz	.12	11.54	+3dB
HF/MF	5,040Hz	.5	2.87	-2dB
HF/MF	9,000Hz	.5	2.87	+2dB

Equalization Settings were developed in an anechoic environment

Delay

	Time	Polarity
LF	none	positive
HF/MF	1.8 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
LF	49 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 97 Volts or amp clipping)
HF/MF	28 Volts, 2 msec attack, 32 msec release, 100:1 ratio (recommended predictive peak stop @ 56 Volts or amp clipping)

See Application Note "Setting System Limiters"

Gain

LF	0dB
HF/MF	0dB

Assumes amplifiers have equal voltage gain

*** 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.)