



SUPERIOR LISTENING SYSTEMS
AUDIO CLARITY REDEFINED

Processor Settings
Cinema System 100 Passive

Crossover

	Frequency	Slope
HPF	35Hz	24dB Oct. (4th order) Butterworth

Equalization

Frequency	BW*	Q	Level
90Hz	.5	2.87	-4dB
200Hz	1	1.41	+4dB
800Hz	.33	4.3	-3dB

Limiting

RMS Voltage

See Application Note
"Setting System Limiters"

56.6 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 97 Volts or amp clipping)



Processor Settings
Cinema System 100 Bi-Amp

Crossover

	Frequency	Slope
CSB115 - HPF	35Hz	24dB Oct. (4th order) Butterworth
CSB115 - LPF	350Hz	24dB Oct. (4th order) Linkwitz/Riley
CS100MH - HPF	450Hz	24dB Oct. (4th order) Linkwitz/Riley

Equalization

	Frequency	BW*	Q	Level
LF	Non Required			
HF/MF	1,080Hz	.62	2.3	+5dB

Equalization Settings were developed in an anechoic environment

Delay

	Time	Polarity
LF	none	positive
HF/MF	none	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	56.6 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 97 Volts or amp clipping)
HF/MF	26.8 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	-2dB

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.)