SUPERIOR LISTENING SYSTEMS
AUDIO CLARITY REDEFINED

Processor Settings

Model 115RT - 115RT-I

Crossover

	Frequency	Slope
LF w/o subwoofer - HPF	40Hz	24dB Oct. Butterworth
LF w/subwoofer - HPF	80Hz	24dB Oct. Butterworth
LF - LPF	1,224Hz	24dB Oct. Butterworth
HF - HPF	1,224Hz	24dB Oct. Butterworth

Equalization

	Frequency	BW*	Q	Level
LF	250Hz	1	1.4	-3dB
HF	1,710Hz	.5	2.9	-5dB
	3,360Hz	.25	5.8	+3dB
	6,990Hz	.33	4.3	-2dB

Equalization Settings were developed in an anechoic environment

Delay

	Time	Polarity
LF	none	positive
HF	none	positive

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

Limiting

See Application Note "Setting System Limiters"

	RMS Voltage
LF	64 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 126 Volts or amp clipping)
HF	20 Volts, 30 msec attack, 480 msec release, 100:1 ratio (recommended predictive peak stop @ 50 Volts or amp clipping)

With Ribbon TPAC installed———NO RMS LIMITING REQUIRED (Transparent Protection Audio Circuit)

(for very high SPL applications, a predictive peak stop limiter @ 50 Volts is recommended)

Gain

LF	0
HF	-5dB

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.)

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