



Processor Settings
Model 115RT - 115RT-I
(115RT Serial #5270110 and above)
(115RT-I Serial #5290013 and above)

Crossover

	Frequency	Slope
LF w/o subwoofer - HPF	35Hz	24dB Oct. (4th order) Butterworth
LF w/subwoofer - HPF	80Hz	24dB Oct. (4th order) Butterworth
LF - LPF	1,224Hz	24dB Oct. (4th order) Linkwitz/Riley
HF - HPF	1,224Hz	24dB Oct. (4th order) Linkwitz/Riley

Equalization

	Frequency	BW*	Q	Level
LF	212Hz	.34	4.2	-3dB
	345Hz	.34	4.2	-3dB
	560Hz	.34	4.2	-3dB
HF	1,943Hz	.5	2.87	-4.4dB
	6,924Hz	.5	2.87	-5.5dB

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

	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, .5 msec attack, 8 msec release, 100:1 ratio (no peak stop required)

See Application Note "Setting System Limiters"

Gain

LF	0
HF	-6dB

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.)



Processor Settings

Model 115RT - 115RT-I

(115RT Serial #5270109 and below)

(115RT-I Serial #5290012 and below)

Crossover

	<u>Frequency</u>	<u>Slope</u>
LF w/o subwoofer - HPF	35Hz	12dB Oct. (2nd order) Butterworth
LF w/subwoofer - HPF	80Hz	24dB Oct. (4th order) Butterworth
LF - LPF	1280Hz	24dB Oct. (4th order) Linkwitz/Riley
HF - HPF	1280Hz	24dB Oct. (4th order) Linkwitz/Riley

Equalization

	<u>Frequency</u>	<u>BW</u>	<u>Q</u>	<u>Level</u>
LF	None Required			
HF	None Required			

Delay

	<u>Time</u>	<u>Polarity</u>
LF	none	positive
HF	.218 msec	positive

Limiting

	<u>RMS Voltage</u>
LF	69 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 6dB above this level)
HF	20 Volts, .5 msec attack, 8 msec release, 100:1 ratio (no peak stop required)

Gain

LF	0
HF	-8dB