

# Renkus-Heinz DSP Settings

## C Series

### CX41 - 50w PGM @ 16 Ohms

#### PASSIVE

RELATIVE GAIN EQUALIZATION		FULL RANGE		
	Freq (Hz)	Q / BW	Gain (dB)	
HPF	100	24 dB/oct	Butterworth	0 dB
LPF	n/a	n/a	n/a	
Filter 1	115	2 / 0.7	6	
Filter 2	700	1.4 / 1	-3	
Filter 3	1750	2 / 0.7	-6	
Filter 4	4000	1.4 / 1	2	
Filter 5	10000	1.4 / 1	-3	
Filter 6				

#### DELAY

LIMITER SETTINGS	Power	Voltage**
AES 25w		0.74ms 19.4Vpk, 13.8Vrms
PEAK 100w		39.8Vpk, 27.6Vrms

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

# Renkus-Heinz DSP Settings

## C Series

### CX61 - 200w PGM @ 16 Ohms

#### BI-AMPLIFIED

LF				HF		
RELATIVE GAIN				RELATIVE GAIN		
EQUALIZATION				EQUALIZATION		
	Freq (Hz)	Q / BW	Gain (dB)	Freq	Q / BW	Gain (dB)
HPF	80	24 dB/oct	Butterworth	2500	24 dB/oct	Butterworth
LPF	1600	24 dB/oct	Butterworth	n/a	n/a	n/a
Filter 1	80	1.7 / 0.8	3	2700	2.4 / 0.6	-1
Filter 2	400	7.2 / 0.2	-2	4000	1.5 / 1	-8
Filter 3	900	1 / 1.5	-6	5500	3.6 / 0.4	2
Filter 4	1400	2.4 / 0.6	-6	8300	2.8 / 0.5	-6
Filter 5				18000	1.4 / 1	-3
Filter 6						

  

DELAY		0.54ms		0.00ms	
LIMITER SETTINGS		Power	Voltage**	Power	Voltage**
AES	100w		40Vpk, 28.2Vrms	20w	17.8Vpk, 12.6Vrms
PEAK	400w		80Vpk, 56.4Vrms	80w	35.8Vpk, 25.2Vrms

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

#### FULL RANGE

FR			
RELATIVE GAIN			
EQUALIZATION			
	Freq (Hz)	Q / BW	Gain (dB)
HPF	80	24 dB/oct	Butterworth
LPF	n/a	n/a	n/a
Filter 1	80	2.4 / 0.6	6
Filter 2	485	1.4 / 1	-3
Filter 3	1025	4.8 / 0.3	-3
Filter 4	6000	0.9 / 1.5	-2
Filter 5			
Filter 6			

  

DELAY		0.54ms	
LIMITER SETTINGS		Power	Voltage**
AES	100w		40Vpk, 28.2Vrms
PEAK	400w		80Vpk, 56.4Vrms

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

# Renkus-Heinz DSP Settings

## C Series

### CX62 - 400w PGM @ 8 Ohms

#### BI-AMPLIFIED

		LF		HF			
		0 dB		-5 dB			
RELATIVE GAIN		Freq (Hz)	Q / BW	Gain (dB)	Freq	Q / BW	Gain (dB)
	HPF	80	24 dB/oct	Butterworth	2600	24 dB/oct	Butterworth
	LPF	1500	24 dB/oct	Butterworth	n/a	n/a	n/a
	Filter 1	80	2.4 / 0.6	3	1800	2.8 / 0.5	3
	Filter 2	1100	0.9 / 1.5	-9	2700	3.6 / 0.4	-3
	Filter 3				4200	1.8 / 0.8	-4.5
	Filter 4				15000	7.2 / 0.2	5
	Filter 5						
	Filter 6						
DELAY			0.00ms			0.00ms	
LIMITER SETTINGS		Power	Voltage**		Power	Voltage**	
	AES 200w		40Vpk, 28.2Vrms	20w		17.8Vpk, 12.6Vrms	
	PEAK 800w		80Vpk, 56.4Vrms	80w		35.8Vpk, 25.2Vrms	

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

#### FULL RANGE

		FR		
		0 dB		
RELATIVE GAIN		Freq (Hz)	Q / BW	Gain (dB)
	HPF	80	24 dB/oct	Butterworth
	LPF	n/a	n/a	n/a
	Filter 1	80	2.4 / 0.6	6
	Filter 2	275	1.2 / 1.2	-4
	Filter 3	2500	2.4 / 0.6	-6
	Filter 4	4500	0.7 / 2	9
	Filter 5	4800	2.9 / 0.5	-6
	Filter 6	8000	2.9 / 0.5	-4
DELAY			0.54ms	
LIMITER SETTINGS		Power	Voltage**	
	AES 200w		40Vpk, 28.2Vrms	
	PEAK 800w		80Vpk, 56.4Vrms	

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

# Renkus-Heinz DSP Settings

## C Series

### CX81 - 250w PGM @ 16 Ohms

#### BI-AMPLIFIED

LF				HF		
RELATIVE GAIN				RELATIVE GAIN		
EQUALIZATION				EQUALIZATION		
	Freq (Hz)	Q / BW	Gain (dB)	Freq	Q / BW	Gain (dB)
	HPF 80	24 dB/oct	Butterworth	2600	24 dB/oct	Butterworth
	LPF 1900	24 dB/oct	Butterworth	n/a	n/a	n/a
	Filter 1 80	2.4 / 0.6	6	2000	2.8 / 0.5	1.5
	Filter 2 140	2.0 / 0.7	-6	2700	2.8 / 0.5	-4
	Filter 3 260	3.6 / 0.4	-2	3200	1.8 / 0.8	-2
	Filter 4 410	2.4 / 0.6	-6	4400	0.9 / 1.5	-11
	Filter 5 730	1.4 / 1	-6	5500	2.8 / 0.5	-3
	Filter 6 1200	1.4 / 1	-6	900	4.8 / 0.3	-6
DELAY				DELAY		
		0.00ms			0.00ms	
LIMITER SETTINGS				LIMITER SETTINGS		
	Power	Voltage**		Power	Voltage**	
	AES 125w	42.4 Vpk, 30.0Vrms		20	17.8Vpk, 12.6Vrms	
	PEAK 500w	84.8 Vpk 60.0 Vrms		80	35.8Vpk, 25.2Vrms	

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

#### FULL RANGE

FR			
RELATIVE GAIN			
EQUALIZATION			
	Freq (Hz)	Q / BW	Gain (dB)
	HPF 80	24 dB/oct	Butterworth
	LPF n/a	n/a	n/a
	Filter 1 80	2.0 / 0.7	6
	Filter 2 700	2.8 / 0.5	2
	Filter 3 2500	2.8 / 0.5	-4
	Filter 4 3000	0.7 / 2	4.5
	Filter 5 5000	2.0 / 0.7	-8
	Filter 6		
DELAY			
		0.5ms	
LIMITER SETTINGS			
	Power	Voltage**	
	AES 125w	42.4 Vpk, 30.0Vrms	
	PEAK 500w	84.8 Vpk 60.0 Vrms	

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

# Renkus-Heinz DSP Settings

## C Series

### CX82 - 500w PGM @ 8 Ohms

#### BI-AMPLIFIED

LF				HF		
0 dB				-4 dB		
RELATIVE GAIN	Freq (Hz)	Q / BW	Gain (dB)	Freq	Q / BW	Gain (dB)
HPF	60	24 dB/oct	Butterworth	2600	24 dB/oct	Butterworth
LPF	1700	24 dB/oct	Butterworth	n/a	n/a	n/a
Filter 1	80	1.4 / 1	3.0	2000	2.8 / 0.5	2.0
Filter 2	550	1.4 / 1	-2.0	2600	3.6 / 0.4	-6.0
Filter 3	910	0.9 / 1.5	-6.0	4500	0.9 / 1.5	-9.0
Filter 4	1300	2.8 / 0.5	-1.0	5300	3.6 / 0.4	-6.0
Filter 5				7300	2.8 / 0.5	3.0
Filter 6						

  

DELAY			0.00ms		
LIMITER SETTINGS	Power	Voltage**	Power	Voltage**	
AES 250w		43.6 Vpk, 30.9 Vrms	20	17.8Vpk, 12.6Vrms	
PEAK 1000w		87.2 Vpk, 61.8 Vrms	80	35.8Vpk, 25.2Vrms	

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

#### FULL RANGE

FR			
0 dB			
RELATIVE GAIN	Freq (Hz)	Q / BW	Gain (dB)
HPF	60	24 dB/oct	Butterworth
LPF	n/a	n/a	n/a
Filter 1	80	1.4 / 1	5.0
Filter 2	225	1.4 / 1	-4.0
Filter 3	2500	4.8 / 0.3	-4.0
Filter 4	3000	0.9 / 1.5	5.0
Filter 5			
Filter 6			

  

DELAY			0.50ms		
LIMITER SETTINGS	Power	Voltage**	Power	Voltage**	
AES 250w		43.6 Vpk, 30.9 Vrms			
PEAK 1000w		87.2 Vpk, 61.8 Vrms			

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

# Renkus-Heinz DSP Settings

## C Series

### CX121 - 700w PGM @ 8 Ohms

#### BI-AMPLIFIED

		LF		HF		
		0 dB		-8 dB		
RELATIVE GAIN	Freq (Hz)	Q / BW	Gain (dB)	Freq	Q / BW	Gain
	HPF 55	24 dB/oct	Butterworth	2600	24 dB/oct	Butterworth
	LPF 1400	24 dB/oct	Butterworth	n/a	n/a	n/a
	Filter 1 55	2.8 / 0.5	6.0	2000	1.4 / 1	6.0
	Filter 2 110	1.4 / 1	-4.0	2800	7.2 / 0.2	-3.0
	Filter 3 280	2.8 / 0.5	-3.0	3000	1.4 / 1	-4.5
	Filter 4 400	2.8 / 0.5	-4.0	3700	0.9 / 1.5	-9.0
	Filter 5 640	3.6 / 0.4	-3.0	8000	1.8 / 0.8	-3.0
	Filter 6 800	1.4 / 1	-6.0	15000	1.4 / 1	3.0
DELAY		0.20 ms		0.00ms		
LIMITER SETTINGS	Power	Voltage**		Power	Voltage**	
	AES 350w	48.4 Vpk, 34.2 Vrms		60w	21.9 Vpk, 15.4 Vrms	
	PEAK 1400w	96.8 Vpk, 68.4 Vrms		240w	43.8 Vpk, 30.9 Vrms	

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

#### FULL RANGE

		FR	
		0 dB	
RELATIVE GAIN	Freq (Hz)	Q / BW	Gain (dB)
	HPF 55	24 dB/oct	Butterworth
	LPF n/a	n/a	n/a
	Filter 1 55	2.8 / 0.5	6.0
	Filter 2 175	1.4 / 1	-2.5
	Filter 3 675	3.6 / 0.4	-2.0
	Filter 4 10225	0.9 / 1.5	-4.0
	Filter 5		
	Filter 6		
DELAY		0.1 ms	
LIMITER SETTINGS	Power	Voltage**	
	AES 350w	48.4 Vpk, 34.2 Vrms	
	PEAK 1400w	96.8 Vpk, 68.4 Vrms	

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

# Renkus-Heinz DSP Settings

## C Series

### CX121M - 600w PGM @ 8 Ohms

#### BI-AMPLIFIED

		LF		HF		
		0 dB		-5 dB		
RELATIVE GAIN	Freq (Hz)	Q / BW	Gain (dB)	Freq	Q / BW	Gain (dB)
HPF	60	24 dB/oct	Butterworth	1300	24 dB/oct	Butterworth
LPF	1500	24 dB/oct	Butterworth	n/a	n/a	n/a
Filter 1	60	0.6	6.0	1750	1.5	-7.0
Filter 2	160	0.7	-5.0	2700	1.9	-9.0
Filter 3	500	0.4	-3.0	4400	0.5	-3.0
Filter 4	800	0.8	-5.0			
Filter 5	1050	0.4	-2.0			
Filter 6						

DELAY	0.10 ms		0.00ms	
LIMITER SETTINGS	Power	Voltage**	Power	Voltage**
AES 300w		48.9 Vpk, 34.5 Vrms	60w	21.9 Vpk, 15.4 Vrms
PEAK 1200w		97.9 Vpk, 69.22 Vrms	240w	43.8 Vpk, 30.9 Vrms

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

#### FULL RANGE

		FR	
		0 dB	
RELATIVE GAIN	Freq (Hz)	Q / BW	Gain (dB)
HPF	60	24 dB/oct	Butterworth
LPF	n/a	n/a	n/a
Filter 1			
Filter 2			
Filter 3			
Filter 4			
Filter 5			
Filter 6			

DELAY	0.10 ms	
LIMITER SETTINGS	Power	Voltage**
AES 300w		48.9 Vpk, 34.5 Vrms
PEAK 1200w		97.9 Vpk, 69.22 Vrms

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

# Renkus-Heinz DSP Settings

## C Series

### CX151 - 700w PGM @ 8 Ohms

#### BI-AMPLIFIED

		LF		HF			
		0 dB		-6 dB			
RELATIVE GAIN	Freq (Hz)	Q / BW	Gain (dB)	Freq	Q / BW	Gain	
	HPF	50	24 dB/oct	Butterworth	2600	24 dB/oct	Butterworth
	LPF	1500	24 dB/oct	Butterworth	n/a	n/a	n/a
	Filter 1	50	2.4 / 0.6	6.0	2800	1.4 / 1	-2.0
	Filter 2	115	1.4 / 1	-3.0	3500	1.4 / 1	-8.0
	Filter 3	520	3.6 / 0.4	-1.5	6500	2.4 / 0.6	-3.5
	Filter 4	700	0.9 / 1.5	-4.0	10000	1.4 / 1	-4.0
	Filter 5	1200	7.2 / 0.2	-3.0			
	Filter 6	1500	2.8 / 0.5	3.0			
DELAY		0.40 ms		0.00ms			
LIMITER SETTINGS	Power	Voltage		Power	Voltage		
	AES 350w	48.4 Vpk, 34.2 Vrms		60w	21.9 Vpk, 15.4 Vrms		
	PEAK 1400w	96.8 Vpk, 68.4 Vrms		240w	43.8 Vpk, 30.9 Vrms		

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

#### FULL RANGE

		FR		
		0 dB		
RELATIVE GAIN	Freq (Hz)	Q / BW	Gain (dB)	
	HPF	50	24 dB/oct	Butterworth
	LPF	n/a	n/a	n/a
	Filter 1	50	2.0 / 0.7	6.0
	Filter 2	175	3.6 / 0.4	-3.0
	Filter 3	570	4.8 / 0.3	-3.0
	Filter 4	5000	3.6 / 0.4	3.0
	Filter 5	15000	2.0 / 0.7	-4.0
	Filter 6			
DELAY		0.00		
LIMITER SETTINGS	Power	Voltage		
	AES 350w	48.4 Vpk, 34.2 Vrms		
	PEAK 1400w	96.8 Vpk, 68.4 Vrms		

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

# Renkus-Heinz DSP Settings

C Series

CX112S - 500w PGM @ 8 Ohms

## SUBWOOFER

RELATIVE GAIN EQUALIZATION		Freq (Hz)	LF 0 dB Q / BW	Gain (dB)
	HPF	45	24 dB/oct	Butterworth
	LPF	110	24 dB/oct	Butterworth
	Filter 1	45	2.8 / 0.5	3.0
	Filter 2	60	4.8 / 0.3	-3.0
	Filter 3	110	1.8 / 0.8	-4.5
	Filter 4			
	Filter 5			
	Filter 6			

## DELAY

0.00 ms

## LIMITER SETTINGS

	Power	Voltage
AES 250w		44.7 Vpk, 31.6 Vrms
PEAK 1000w		89.4 Vpk, 63.2 Vrms

\*\*Use Vpk or Vrms depending on what your voltage meter will display.

# Renkus-Heinz DSP Settings

C Series

CX118S - 900w PGM @ 8 Ohms

## SUBWOOFER

RELATIVE GAIN EQUALIZATION		Freq (Hz)	LF 0 dB Q / BW	Gain (dB)
	HPF	35	24 dB/oct	Butterworth
	LPF	100	24 dB/oct	Butterworth
	Filter 1	125	2.0 / 0.7	-3.0
	Filter 2			
	Filter 3			
	Filter 4			
	Filter 5			
	Filter 6			

## DELAY

0.00 ms

## LIMITER SETTINGS

	Power	Voltage
AES	450w	60 Vpk, 42.4 Vrms
PEAK	1800w	120 Vpk, 84.8 Vrms

\*\*Use Vpk or Vrms depending on what your voltage meter will display.