

GAE System series 6-FR

Passive Top full-range

System 6

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 45Hz Butterworth 18dB/oct. (3rd order)

LPF: bypass

Band-EQ1:	68Hz	Q=2,0	B/W=0,71	Gain: 0...+4,0dB (Bass boost)
Band-EQ2:	144Hz	Q=4,0	B/W=0,36	Gain: -2,5dB
Band-EQ3:	240Hz	LoSHF 2 nd	(Q=0,7)	Gain: +2,0dB (Bass/Mid boost)
Band-EQ4:	420Hz	Q=4,5	B/W=0,32	Gain: -1,5dB
Band-EQ5:	6000Hz	Q=5,7	B/W=0,25	Gain: -1,3dB
Band-EQ6:	3500Hz	HiSHF 2 nd	(Q=0,7)	Gain: 0...+2,0dB (Tweeter boost)

GAE System series 6-LE

Passive Top with Low Extension

Low Extension (i.e. BR15)

Gain: -4,0dB Delay: adjust Phase: +

HPF: 30Hz Butterworth 18dB/oct. (3rd order)
LPF: 95Hz Butterworth 24dB/oct. (4th order)

Band-EQ1: 40Hz Q=3,0 B/W=0,48 Gain: +1,5...+5,0dB (Bass boost)

System 6

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 85Hz Butterworth 24dB/oct. (4th order)
LPF: bypass

Band-EQ1: 3500Hz HiSHF 2nd (Q=0,7) Gain: 0...+2,0dB (Tweeter boost)
Band-EQ2: 420Hz Q=4,5 B/W=0,32 Gain: -1,5dB
Band-EQ3: 6000Hz Q=5,7 B/W=0,25 Gain: -1,3dB
Band-EQ4: 9500Hz Q=7,1 B/W=0,20 Gain: -1,5dB

Input EQs (Pre-EQs)

PEQ1: 100Hz Q=2,5 B/W=0,57 Gain: -2...-5,0dB

GAE System series 6CX-FR

Passive Coaxial Top full-range

System 6CX

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 65Hz Butterworth 18dB/oct. (3rd order)LPF: 18k0Hz Butterworth 12db/oct. (2nd order)

Band-EQ1:	600Hz	LoSHF 2 nd	(Q=0,7)	Gain:	+/-3,0dB (Ambit match)
Band-EQ2:	6k0Hz	HiSHF 2 nd	(Q=0,7)	Gain:	+/-3,0dB (Tweeter level)
Band-EQ3:	85Hz	Q=5,0	B/W=0,29	Gain:	0...+3,0dB (Bass boost)
Band-EQ4:	840Hz	Q=3,0	B/W=0,48	Gain:	-3,0dB
Band-EQ5:	14k3Hz	Q=6,0	B/W=0,24	Gain:	+3,0dB

GAE System series 62-FR

Passive Top full-range

System 62

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 55Hz Butterworth 18dB/oct. (3rd order)
LPF: bypass

Band-EQ1: 205Hz	Q=4,0	B/W=0,36	Gain: -1,5dB
Band-EQ2: 810Hz	Q=4,0	B/W=0,36	Gain: -1,5dB
Band-EQ3: 5100Hz	Q=6,0	B/W=0,24	Gain: -1,0dB
Band-EQ4: 9200Hz	Q=6,5	B/W=0,22	Gain: -1,7dB
Band-EQ5: 16500Hz	Q=7,1	B/W=0,20	Gain: +3,0...+4,5dB

Input EQs (Pre-EQs)

PEQ1: 73Hz	Q=2,5	B/W=0,57	Gain: 0...+6,0dB (Bass boost)
PEQ2: 240Hz	LoSHF 2 nd	(Q=0,7)	Gain: 0...+/-2,0dB (Bass/Mid level)
PEQ3: 3500Hz	HiSHF 2 nd	(Q=0,7)	Gain: 0...+/-3,0dB (Tweeter level)

GAE System series 62-LE

Passive Top with Low Extension

Low Extension (i.e. BR115)

Gain: adjust Delay: adjust Phase: +

HPF: 30Hz Butterworth 18dB/oct. (3rd order)
LPF: 95Hz Butterworth 24dB/oct. (4th order)

Band-EQ1: 40Hz Q=3,0 B/W=0,48 Gain: **+1,5...+5,0dB** (Bass boost)

System 62

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 85Hz Butterworth 24dB/oct. (4th order)
LPF: bypass

Band-EQ1: 205Hz	Q=4,0	B/W=0,36	Gain: -1,0dB
Band-EQ2: 810Hz	Q=4,0	B/W=0,36	Gain: -1,5dB
Band-EQ3: 5100Hz	Q=6,0	B/W=0,24	Gain: -1,0dB
Band-EQ4: 9200Hz	Q=6,5	B/W=0,22	Gain: -1,7dB
Band-EQ5: 16500Hz	Q=7,1	B/W=0,20	Gain: +3,0...+4,5dB

Input EQs (Pre-EQs)

PEQ1: 100Hz	Q=2,5	B/W=0,57	Gain: 0...-3,0dB (x-over reduction)
PEQ3: 3500Hz	HiSHF 2 nd	(Q=0,7)	Gain: 0...+/-3,0dB (Tweeter level)

GAE System series 10-FR

Passive Top full-range

System 10

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 55Hz Butterworth 18dB/oct. (3rd order)

LPF: bypass

Input EQs (Pre-EQs)

PEQ1:	70Hz	Q=2,5	B/W=0,57	Gain: +2,0...+5,0dB (Bass boost)
PEQ2:	172Hz	Q=2,5	B/W=0,57	Gain: -3,0dB
PEQ3:	1820Hz	Q=5,0	B/W=0,29	Gain: -1,5dB
PEQ4:	4490Hz	Q=5,0	B/W=0,29	Gain: -2,0dB
PEQ5:	8000Hz	Q=4,0	B/W=0,36	Gain: -2,0dB
PEQ6:	13700Hz	Q=3,0	B/W=0,48	Gain: +2,5dB

GAE System series 10-LE

Passive Top with Low Extension

Low Extension (BR15)

Gain: 0,0dB Delay: adjust Phase: +

HPF: 30Hz Butterworth 18dB/oct. (3rd order)
LPF: 95Hz Butterworth 24dB/oct. (4th order)

Band-EQ1: 40Hz Q=3,0 B/W=0,48 Gain: +3,0...+5,0dB (Bass boost)

System 10

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 85Hz Butterworth 24dB/oct. (4th order)
LPF: bypass

Band-EQ1:	172Hz	Q=2,5	B/W=0,57	Gain: -3,0dB
Band-EQ2:	1820Hz	Q=5,0	B/W=0,29	Gain: -1,5dB
Band-EQ3:	4490Hz	Q=5,0	B/W=0,29	Gain: -2,0dB
Band-EQ4:	8000Hz	Q=4,0	B/W=0,36	Gain: -2,0dB
Band-EQ5:	13700Hz	Q=3,0	B/W=0,48	Gain: +2,5dB

Input EQs (Pre-EQs)

PEQ1: 100Hz Q=2,5 B/W=0,57 Gain: -2...-4,0dB (Level reduction crossover)

GAE System series 10CX-FR

Passive Coaxial system – Full Range application

System 10CX

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 45Hz Butterworth 18dB/oct. (3rd order)LPF: 18k0Hz Butterworth 12dB/oct. (2nd order) (For extended high frequency range, use no LPF)

Band-EQ1:	410Hz	LoSHF 2 nd	(Q=0,7)	Gain:	+/-3,0dB (Ambit match)
Band-EQ2:	2k60Hz	HiSHF 2 nd	(Q=0,7)	Gain:	+/-3,0dB (Tweeter level)
Band-EQ3:	68Hz	Q=2,5	B/W=0,57	Gain:	0...+6,0dB (Bass boost)
Band-EQ4:	612Hz	Q=4,0	B/W=0,36	Gain:	-1,7dB
Band-EQ5:	1k59Hz	Q=6,0	B/W=0,24	Gain:	-1,5dB
Band-EQ6:	3k67Hz	Q=3,0	B/W=0,48	Gain:	-1,5dB
Band-EQ7:	13k10Hz	Q=9,0	B/W=0,16	Gain:	+3,0dB

GAE System series 10CXTM-FR

Passive Coaxial multi-functional system, Full Range application

System 10CXTM (Fullrange Application)

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 51Hz Butterworth 18dB/oct. (3rd order)

LPF: 18k0Hz Butterworth 12dB/oct. (2nd order) (For extended high frequency range, use no LPF)

Band-EQ1:	410Hz	LoSHF 2 nd	(Q=0,7)	Gain:	+/-3,0dB (Ambit match)
Band-EQ2:	2k60Hz	HiSHF 2 nd	(Q=0,7)	Gain:	+/-3,0dB (Tweeter level)
Band-EQ3:	70Hz	Q=3,0	B/W=0,48	Gain:	0...+6,0dB (Bass boost)
Band-EQ4:	612Hz	Q=4,0	B/W=0,36	Gain:	-1,7dB
Band-EQ5:	1k59Hz	Q=6,0	B/W=0,24	Gain:	-1,5dB
Band-EQ6:	3k67Hz	Q=3,0	B/W=0,48	Gain:	-1,5dB
Band-EQ7:	13k10Hz	Q=9,0	B/W=0,16	Gain:	+3,0dB

GAE System series 10CXTM-M

Passive Coaxial multi-functional system – Monitor application

System 10CXTM (Monitor Application)

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 55Hz Butterworth 18dB/oct. (3rd order)

LPF: 13k8Hz Butterworth 12dB/oct. (2nd order) (For extended high frequency range, use no LPF)

Band-EQ1:	70Hz	Q=3,0	B/W=0,48	Gain: 0,0...+3,0dB (Bass boost)
Band-EQ2:	120Hz	Q=3,0	B/W=0,48	Gain: -4,0dB
Band-EQ3:	386Hz	Q=3,0	B/W=0,48	Gain: +4,0dB
Band-EQ4:	595Hz	Q=3,0	B/W=0,48	Gain: -3,0dB
Band-EQ5:	1k59Hz	Q=6,0	B/W=0,24	Gain: -1,5dB
Band-EQ6:	3k67Hz	Q=3,0	B/W=0,48	Gain: -1,5dB

GAE System series 12-6-FR

Passive Top 60°x40° full-range

System 12

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 40Hz Butterworth 18dB/oct. (3rd order)

LPF: bypass

Band-EQ1:	210Hz	Q=0,7	B/W=1,92	Gain: +6,0dB
Band-EQ2:	250Hz	Q=4,5	B/W=0,32	Gain: -2,5dB
Band-EQ3:	580Hz	Q=3,5	B/W=0,41	Gain: -3,0dB
Band-EQ4:	2310Hz	Q=3,0	B/W=0,48	Gain: -1,5dB
Band-EQ5:	8000Hz	Q=4,0	B/W=0,36	Gain: -3,0dB
Band-EQ6:	11000Hz	Q=3,5	B/W=0,41	Gain: -4,5dB

Input EQs (Pre-EQs)

PEQ1:	72Hz	Q=3,0	B/W=0,48	Gain: +4,0dB (Bass boost)
PEQ2:	850Hz	Q=0,6	B/W=2,19	Gain: -1,5dB (Mid reduction)
PEQ3:	3300Hz	HiSHF 2 nd	(Q=0,7)	Gain: variable (Tweeter level)

GAE System series 12-6-LE

Passive Top 60°x40° with Low Extension

Low Extension (BR series)

Gain: adjust Delay: adjust Phase: +

HPF: 30Hz Butterworth 18dB/oct. (3rd order)

LPF: 100Hz Linkwitz/Riley 24dB/oct. (4th order)

Band-EQ1: 40Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,5dB (Bass boost) BR115/BR215

Band-EQ1: 38Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,0dB (Bass boost) BR118/BR218

System 12

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 108Hz Butterworth 24dB/oct. (4th order)

LPF: bypass

Band-EQ1: 210Hz Q=0,7 B/W=1,92 Gain: +6,0dB

Band-EQ2: 250Hz Q=4,5 B/W=0,32 Gain: -2,5dB

Band-EQ3: 580Hz Q=3,5 B/W=0,41 Gain: -3,0dB

Band-EQ4: 2310Hz Q=3,0 B/W=0,48 Gain: -1,5dB

Band-EQ5: 8000Hz Q=4,0 B/W=0,36 Gain: -3,0dB

Band-EQ6: 11000Hz Q=3,5 B/W=0,41 Gain: -4,5dB

Input EQs (Pre-EQs)

PEQ1: 105Hz Q=3,0 B/W=0,48 Gain: 0...-3,0dB (Level reduction crossover)

PEQ2: 850Hz Q=0,6 B/W=2,19 Gain: -1,5dB (Mid reduction)

PEQ3: 3300Hz HiSHF 2nd (Q=0,7) Gain: variable (Tweeter level)

GAE System series 12-6A-FR

Active Top 60°x40° full-range

System 12 LF-output (12" speaker)

Gain: 0dB Delay: 0,31ms Phase: +

HPF: 45Hz Butterworth 18dB/oct. (3rd order)
LPF: 1630Hz Linkwitz/Riley 24dB/oct. (4th order)

Band-EQ1:	100Hz	Q=4,0	B/W=0,36	Gain: +3,0dB
Band-EQ2:	187Hz	Q=1,6	B/W=0,89	Gain: +5,0dB
Band-EQ3:	250Hz	Q=4,0	B/W=0,36	Gain: -2,5dB
Band-EQ4:	648Hz	Q=2,5	B/W=0,57	Gain: -3,0dB
Band-EQ5:	2310Hz	Q=3,6	B/W=0,4	Gain: -5,0dB

System 12 HF-output (1,4" horn)

Gain: -9,0dB Delay: 0ms Phase: +

HPF: 1630Hz Butterworth 18dB/oct. (3rd order)
LPF: bypass

Band-EQ1:	1120Hz	Q=11,0	B/W=0,13	Gain: -3,5dB
Band-EQ2:	1590Hz	Q=4,5	B/W=0,32	Gain: -1,5dB
Band-EQ3:	5990Hz	Q=5,0	B/W=0,29	Gain: +2,5dB
Band-EQ4:	16000Hz	Q=2,0	B/W=0,71	Gain: +3,5dB

Input EQs (Pre-EQs)

PEQ1:	57Hz	Q=6,0	B/W=0,24	Gain: +6,0dB (Bass boost)
PEQ2:	1680Hz	Q=1,0	B/W=1,39	Gain: -3,0dB (Mid reduction)

GAE System series 12-6A-LE

Active Top 60°x40° with Low Extension

Low Extension (BR series)

Gain: adjust Delay: adjust Phase: +

HPF: 30Hz Butterworth 18dB/oct. (3rd order)

LPF: 90Hz Linkwitz/Riley 24dB/oct. (4th order)

Band-EQ1: 40Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,5dB (Bass boost) BR115/BR215

Band-EQ1: 38Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,0dB (Bass boost) BR118/BR218

System 12 LF-output (12" speaker)

Gain: 0dB Delay: 0,31ms Phase: +

HPF: 108Hz Butterworth 24dB/oct. (4th order)

LPF: 1630Hz Linkwitz/Riley 24dB/oct. (4th order)

Band-EQ1: 100Hz Q=4,0 B/W=0,36 Gain: +3,0dB

Band-EQ2: 187Hz Q=1,6 B/W=0,89 Gain: +5,0dB

Band-EQ3: 250Hz Q=4,0 B/W=0,36 Gain: -2,5dB

Band-EQ4: 2310Hz Q=3,6 B/W=0,4 Gain: -5,0dB

System 12 HF-output (1,4" horn)

Gain: -9,0dB Delay: 0ms Phase: +

HPF: 1630Hz Butterworth 18dB/oct. (3rd order)

LPF: bypass

Band-EQ1: 1120Hz Q=11,0 B/W=0,13 Gain: -3,5dB

Band-EQ2: 1590Hz Q=4,5 B/W=0,32 Gain: -1,5dB

Band-EQ3: 5990Hz Q=5,0 B/W=0,29 Gain: +2,5dB

Band-EQ4: 16000Hz Q=2,0 B/W=0,71 Gain: +3,5dB

Input EQs (Pre-EQs)

PEQ1: 648Hz Q=2,5 B/W=0,57 Gain: -3,0dB

PEQ2: 1680Hz Q=1,0 B/W=1,39 Gain: -3,0dB (Mid reduction)

GAE System series 12-8-FR

Passive Top 80°x60° full-range

System 12

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 40Hz Butterworth 18dB/oct. (3rd order)

LPF: bypass

Band-EQ1:	210Hz	Q=0,7	B/W=1,92	Gain: +6,0dB
Band-EQ2:	250Hz	Q=4,5	B/W=0,32	Gain: -2,5dB
Band-EQ3:	580Hz	Q=3,5	B/W=0,41	Gain: -3,0dB
Band-EQ4:	3890Hz	Q=2,0	B/W=0,71	Gain: -2,0dB
Band-EQ5:	8480Hz	Q=4,0	B/W=0,36	Gain: -2,0dB

Input EQs (Pre-EQs)

PEQ1:	72Hz	Q=3,0	B/W=0,48	Gain: +4,0dB	(Bass boost)
PEQ2:	1120Hz	Q=1,0	B/W=1,39	Gain: -2,5dB	(Mid reduction)
PEQ3:	3300Hz	HiSHF 2 nd	(Q=0,7)	Gain: variable	(Tweeter level)

GAE System series 12-8-LE

Passive Top 80°x60° with Low Extension

Low Extension (BR series)

Gain: adjust Delay: adjust Phase: +

HPF: 30Hz Butterworth 18dB/oct. (3rd order)

LPF: 100Hz Linkwitz/Riley 24dB/oct. (4th order)

Band-EQ1: 40Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,5dB (Bass boost) BR115/BR215

Band-EQ1: 38Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,0dB (Bass boost) BR118/BR218

System 12

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 108Hz Butterworth 24dB/oct. (4th order)

LPF: bypass

Band-EQ1: 210Hz Q=0,7 B/W=1,92 Gain: +6,0dB

Band-EQ2: 250Hz Q=4,5 B/W=0,32 Gain: -2,5dB

Band-EQ3: 580Hz Q=3,5 B/W=0,41 Gain: -3,0dB

Band-EQ4: 3890Hz Q=2,0 B/W=0,71 Gain: -2,0dB

Band-EQ5: 8480Hz Q=4,0 B/W=0,36 Gain: -2,0dB

Input EQs (Pre-EQs)

PEQ1: 105Hz Q=3,0 B/W=0,48 Gain: 0...-3,0dB (Level reduction crossover)

PEQ2: 1120Hz Q=0,6 B/W=2,19 Gain: -2,5dB (Mid reduction)

PEQ3: 3300Hz HiSHF 2nd (Q=0,7) Gain: variable (Tweeter level)

GAE System series 12-8A-FR

Active Top 80°x60° full-range

System 12 LF-output (12" speaker)

Gain: 0dB Delay: 0,15ms Phase: +

HPF: 45Hz Butterworth 18dB/oct. (3rd order)

LPF: 1000Hz Linkwitz/Riley 24dB/oct. (4th order)

Band-EQ1: 150Hz	Q=1,0	B/W=1,39	Gain: +5,0dB
Band-EQ2: 257Hz	Q=6,0	B/W=0,24	Gain: -2,0dB
Band-EQ3: 545Hz	Q=2,5	B/W=0,57	Gain: -3,0dB

System 12 HF-output (1,4" horn)

Gain: -6,5dB Delay: 0ms Phase: +

HPF: 2060Hz Butterworth 18dB/oct. (3rd order)

LPF: bypass

Band-EQ1: 2750Hz	Q=3,0	B/W=0,48	Gain: -7,0dB
Band-EQ2: 3670Hz	Q=3,2	B/W=0,45	Gain: -3,8dB
Band-EQ3: 5040Hz	Q=2,5	B/W=0,57	Gain: -2,0dB
Band-EQ4: 8480Hz	Q=6,0	B/W=0,24	Gain: -3,0dB
Band-EQ5: 10400Hz	Q=5,0	B/W=0,29	Gain: +2,5dB

Input EQs (Pre-EQs)

PEQ1: 80Hz	Q=4,0	B/W=0,36	Gain: 0...+3,0dB (Bass boost)
PEQ2: 890Hz	Q=1,0	B/W=1,39	Gain: 0...-3,0dB (Mid reduction)

GAE System series 12-8A-LE

Active Top 80°x60° with Low Extension

Low Extension (BR series)

Gain: adjust Delay: adjust Phase: +

HPF: 30Hz Butterworth 18dB/oct. (3rd order)

LPF: 100Hz Linkwitz/Riley 24dB/oct. (4th order)

Band-EQ1: 40Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,5dB (Bass boost) BR115/BR215

Band-EQ1: 38Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,0dB (Bass boost) BR118/BR218

System 12 LF-output (12" speaker)

Gain: 0dB Delay: 0,15ms Phase: +

HPF: 108Hz Butterworth 24dB/oct. (4th order)

LPF: 1000Hz Linkwitz/Riley 24dB/oct. (4th order)

Band-EQ1: 150Hz Q=1,0 B/W=1,39 Gain: +5,0dB

Band-EQ2: 257Hz Q=6,0 B/W=0,24 Gain: -2,0dB

Band-EQ3: 545Hz Q=2,5 B/W=0,57 Gain: -3,0dB

System 12 HF-output (1,4" horn)

Gain: -6,5dB Delay: 0ms Phase: +

HPF: 2060Hz Butterworth 18dB/oct. (3rd order)

LPF: bypass

Band-EQ1: 2750Hz Q=3,0 B/W=0,48 Gain: -7,0dB

Band-EQ2: 3670Hz Q=3,2 B/W=0,45 Gain: -3,8dB

Band-EQ3: 5040Hz Q=2,5 B/W=0,57 Gain: -2,0dB

Band-EQ4: 8480Hz Q=6,0 B/W=0,24 Gain: -3,0dB

Band-EQ5: 10400Hz Q=5,0 B/W=0,29 Gain: +2,5dB

Input EQs (Pre-EQs)

PEQ1: 890Hz Q=1,0 B/W=1,39 Gain: 0...-3,0dB (Mid reduction)

GAE System series 12TM-FR

Passive Top 60° / Full-range application

System 12TM

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 45Hz Butterworth 18dB/oct. (3rd order)
LPF: bypass

Band-EQ1:	630Hz	Q=8,0	B/W=0,18	Gain: -3,0dB
Band-EQ2:	1460Hz	Q=3,0	B/W=0,48	Gain: -2,0dB
Band-EQ3:	2590Hz	Q=3,6	B/W=0,4	Gain: -1,2dB
Band-EQ4:	8480Hz	Q=5,0	B/W=0,29	Gain: -2,0dB
Band-EQ5:	13500Hz	Q=8,0	B/W=0,18	Gain: -1,5dB

Input EQs (Pre-EQs)

PEQ1:	62Hz	Q=3,0	B/W=0,48	Gain: +4,5dB	Variable Bass boost	(0...+6,0dB)
PEQ2:	3300Hz	HiSHF 2 nd	(Q=0,7)	Gain: -1,5dB	Variable Tweeter level	(0...-3,0dB)
PEQ3:	395Hz	LoSHF 2 nd	(Q=0,7)	Gain: +3,0dB	Variable Low-mid boost	(0...+3,0dB)

GAE System series 12TM-MO

Passive Monitor 60° / Monitor application

System 12TM

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 50Hz Butterworth 18dB/oct. (3rd order)
LPF: 14300Hz Butterworth 12dB/oct. (2nd order)

Band-EQ1:	330Hz	Q=2,5	B/W=0,57	Gain: +6,0dB
Band-EQ2:	600Hz	Q=5,0	B/W=0,29	Gain: -4,0dB
Band-EQ3:	1460Hz	Q=3,0	B/W=0,48	Gain: -2,0dB
Band-EQ4:	2590Hz	Q=3,6	B/W=0,4	Gain: -1,2dB
Band-EQ5:	8480Hz	Q=5,0	B/W=0,29	Gain: -2,0dB

Input EQs (Pre-EQs)

PEQ1:	75Hz	Q=4,0	B/W=0,36	Gain: +4,0dB	Variable Bass boost	(0...+4,0dB)
PEQ2:	130Hz	Q=4,0	B/W=0,36	Gain: -2,0 dB	Var. red. of upper bass	(0...-4,0dB)
PEQ2:	3300Hz	HiSHF 2 nd	(Q=0,7)	Gain: 0,0 dB	Variable Tweeter level	(+/- 3,0dB)

GAE System series 12TM-LE

Passive Top 60° with Low Extension, FOH application

Low Extension (BR series)

Gain: adjust Delay: adjust Phase: +

HPF: 30Hz Butterworth 18dB/oct. (3rd order)

LPF: 100Hz Linkwitz/Riley 24dB/oct. (4th order) For installation application
Fx may be reduced down to 85Hz

Band-EQ1: 40Hz Q=3,0 B/W=0,48 Gain:+1,5dB Var. Bass boost, (0...+4,0dB) BR115, BR215

Band-EQ1: 38Hz Q=3,0 B/W=0,48 Gain:+1,5dB Var. Bass boost, (0...+4,0dB) BR118, BR218

System 12TM

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 108Hz Butterworth 24dB/oct. (4th order) For installation application
Fx may be reduced down to 85Hz

LPF: bypass

Band-EQ1: 395Hz LoSHF 2nd (Q=0,7) Gain: +3,0dB

Band-EQ2: 630Hz Q=8,0 B/W=0,18 Gain: -3,0dB

Band-EQ3: 1460Hz Q=3,0 B/W=0,48 Gain: -2,0dB

Band-EQ4: 2590Hz Q=3,6 B/W=0,4 Gain: -1,2dB

Band-EQ5: 8480Hz Q=5,0 B/W=0,29 Gain: -2,0dB

Band-EQ6: 13500Hz Q=8,0 B/W=0,18 Gain: -1,5dB

Input EQs (Pre-EQs)

PEQ1: 105Hz Q=3,0 B/W=0,48 Gain: 0,0dB Level reduction crossover (0...-3,0dB)

PEQ2: 3300Hz HiSHF 2nd (Q=0,7) Gain: -1,5dB Variable tweeter level (0...-3,0dB)

GAE System series 15-6-FR

Passive Top 60°x40° full-range

System 15

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 35Hz Butterworth 18dB/oct. (3rd order)
LPF: bypass

Band-EQ1:	115Hz	Q=0,7	B/W=1,92	Gain: +4,0dB
Band-EQ2:	445Hz	Q=3,0	B/W=0,48	Gain: -1,5dB
Band-EQ3:	650Hz	Q=4,0	B/W=0,36	Gain: -2,5dB
Band-EQ4:	1190Hz	Q=4,5	B/W=0,32	Gain: -2,5dB
Band-EQ5:	8000Hz	Q=3,0	B/W=0,48	Gain: -2,0dB
Band-EQ6:	11000Hz	Q=4,5	B/W=0,32	Gain: -4,5dB

Input EQs (Pre-EQs)

PEQ1:	50Hz	Q=2,0	B/W=0,71	Gain: +5,0dB (Bass boost)
PEQ2:	2750Hz	Q=0,5	B/W=2,54	Gain: -5,0dB (Mid reduction)
PEQ3:	3300Hz	HiSHF 2 nd	(Q=0,7)	Gain: variable (Tweeter level)

GAE System series 15-6-LE

Passive Top 60°x40° with Low Extension

Low Extension (BR series)

Gain: adjust Delay: adjust Phase: +

HPF: 30Hz Butterworth 18dB/oct. (3rd order)

LPF: 90Hz Linkwitz/Riley 24dB/oct. (4th order)

Band-EQ1: 40Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,5dB (Bass boost) BR115/BR215

Band-EQ1: 38Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,0dB (Bass boost) BR118/BR218

System 15

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 108Hz Butterworth 24dB/oct. (4th order)

LPF: bypass

Band-EQ1: 115Hz Q=0,7 B/W=1,92 Gain: +4,0dB

Band-EQ2: 445Hz Q=3,0 B/W=0,48 Gain: -1,5dB

Band-EQ3: 650Hz Q=4,0 B/W=0,36 Gain: -2,5dB

Band-EQ4: 1190Hz Q=4,5 B/W=0,32 Gain: -2,5dB

Band-EQ5: 8000Hz Q=3,0 B/W=0,48 Gain: -2,0dB

Band-EQ6: 11000Hz Q=4,5 B/W=0,32 Gain: -4,5dB

Input EQs (Pre-EQs)

PEQ1: 105Hz Q=3,0 B/W=0,48 Gain: 0...-3,0dB (Level reduction crossover)

PEQ2: 2750Hz Q=0,5 B/W=2,54 Gain: -5,0dB (Mid reduction)

PEQ3: 3300Hz HiSHF 2nd (Q=0,7) Gain: variable (Tweeter level)

GAE System series 15-8-FR

Passive Top 80°x60° full-range

System 15

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 35Hz Butterworth 18dB/oct. (3rd order)
LPF: bypass

Band-EQ1:	115Hz	Q=0,7	B/W=1,92	Gain: +4,0dB
Band-EQ2:	445Hz	Q=3,0	B/W=0,48	Gain: -2,5dB
Band-EQ3:	650Hz	Q=4,0	B/W=0,36	Gain: -3,0dB
Band-EQ4:	1190Hz	Q=4,5	B/W=0,32	Gain: -3,5dB
Band-EQ5:	8480Hz	Q=4,0	B/W=0,36	Gain: -2,0dB

Input EQs (Pre-EQs)

PEQ1:	50Hz	Q=2,0	B/W=0,71	Gain: +5,0dB (Bass boost)
PEQ2:	2750Hz	Q=0,5	B/W=2,54	Gain: -5,0dB (Mid reduction)
PEQ3:	3300Hz	HiSHF 2 nd	(Q=0,7)	Gain: variable (Tweeter level)

GAE System series 15-8-LE

Passive Top 80°x60° with Low Extension

Low Extension (BR series)

Gain: adjust Delay: adjust Phase: +

HPF: 30Hz Butterworth 18dB/oct. (3rd order)

LPF: 90Hz Linkwitz/Riley 24dB/oct. (4th order)

Band-EQ1: 40Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,5dB (Bass boost) BR115/BR215

Band-EQ1: 38Hz Q=3,0 B/W=0,48 Gain: +1,5...+4,0dB (Bass boost) BR118/BR218

System 15

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 108Hz Butterworth 24dB/oct. (4th order)

LPF: bypass

Band-EQ1: 115Hz Q=0,7 B/W=1,91 Gain: +4,0dB

Band-EQ2: 445Hz Q=3,0 B/W=0,48 Gain: -2,5dB

Band-EQ3: 650Hz Q=4,0 B/W=0,36 Gain: -3,0dB

Band-EQ4: 1190Hz Q=4,5 B/W=0,32 Gain: -3,5dB

Band-EQ5: 8480Hz Q=4,0 B/W=0,36 Gain: -2,0dB

Input EQs (Pre-EQs)

PEQ1: 105Hz Q=3,0 B/W=0,48 Gain: 0...-3,0dB (Level reduction crossover)

PEQ2: 2750Hz Q=0,5 B/W=2,54 Gain: -5,0dB (Mid reduction)

PEQ3: 3300Hz HiSHF 2nd (Q=0,7) Gain: variable (Tweeter level)

GAE System series 15TM-FR

Passive Top 60° / Full-range application

System 15TM

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 40Hz Butterworth 18dB/oct. (3rd order)
 LPF: bypass

Band-EQ1:	880Hz	Q=10,0	B/W=0,14	Gain: -1,5dB
Band-EQ2:	1220Hz	Q=10,0	B/W=0,14	Gain: -2,0dB
Band-EQ3:	8480Hz	Q=5,0	B/W=0,29	Gain: -2,0dB
Band-EQ4:	13500Hz	Q=8,0	B/W=0,18	Gain: -1,5dB

Input EQs (Pre-EQs)

PEQ1:	57Hz	Q=3,0	B/W=0,48	Gain: +3,0dB	Var. Bass boost	(0...+6,0dB)
PEQ2:	100Hz	LoSHF 2 nd	(Q=0,7)	Gain: +3,0dB	Var. Low-mid boost	(0...+3,0dB)
PEQ3:	3300Hz	HiSHF 2 nd	(Q=0,7)	Gain: -1,5dB	Var. Tweeter level	(0...-3,0dB)
PEQ4:	4250Hz	Q=2,5	B/W=0,57	Gain: -1,0dB	Var. 4k-range level	(0...-2,0dB)

GAE System series 15TM-MO

Passive Monitor 60° / Monitor application

System 15TM

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 50Hz Butterworth 18dB/oct. (3rd order)
 LPF: 14300Hz Butterworth 12dB/oct. (2nd order)

Band-EQ1:	255Hz	Q=2,5	B/W=0,57	Gain: +5,0dB
Band-EQ2:	515Hz	Q=4,0	B/W=0,36	Gain: -1,5dB
Band-EQ3:	880Hz	Q=10,0	B/W=0,14	Gain: -2,0dB
Band-EQ4:	1220Hz	Q=10,0	B/W=0,14	Gain: -2,0dB
Band-EQ5:	8480Hz	Q=5,0	B/W=0,29	Gain: -2,0dB

Input EQs (Pre-EQs)

PEQ1:	70Hz	Q=4,0	B/W=0,36	Gain: +4,0dB	Var. Bass boost	(0...+4,0dB)
PEQ2:	130Hz	Q=4,0	B/W=0,36	Gain: -2,0dB	Var. red. upper bass	(0...-4,0dB)
PEQ3:	3300Hz	HiSHF 2 nd	(Q=0,7)	Gain: 0dB	Var. Tweeter level	(+/-3,0dB)
PEQ4:	4250Hz	Q=2,5	B/W=0,57	Gain: -2,0dB	Var. 4k-range level	(0...-2,0dB)

GAE System series 15TM-LE

Passive Top 60° with Low Extension, FOH application

Low Extension (BR series)

Gain: adjust Delay: adjust Phase: +

HPF: 30Hz Butterworth 18dB/oct. (3rd order)

LPF: 100Hz Linkwitz/Riley 24dB/oct. (4th order) For installation application
Fx may be reduced down to 80Hz

Band-EQ1: 40Hz Q=3,0 B/W=0,48 Gain: +1,5dB Var. Bass boost, (0...+4,0dB) BR115, BR215

Band-EQ1: 38Hz Q=3,0 B/W=0,48 Gain: +1,5dB Var. Bass boost, (0...+4,0dB) BR118, BR218

System 15TM

Gain: 0dB Delay: 0,0ms Phase: +

HPF: 108Hz Butterworth 24dB/oct. (4th order) For installation application
Fx may be reduced down to 80Hz

LPF: bypass

Band-EQ1: 880Hz Q=10,0 B/W=0,14 Gain: -1,5dB

Band-EQ2: 1220Hz Q=10,0 B/W=0,14 Gain: -2,0dB

Band-EQ3: 8480Hz Q=5,0 B/W=0,29 Gain: -2,0dB

Band-EQ4: 13500Hz Q=8,0 B/W=0,18 Gain: -1,5dB

Input EQs (Pre-EQs)

PEQ1: 100Hz LoSHF 2nd (Q=0,7) Gain: +3,0dB Var. Low-mid boost (0...+3,0dB)

PEQ2: 3300Hz HiSHF 2nd (Q=0,7) Gain: -1,5dB Var. Tweeter level (0...-3,0dB)

PEQ3: 4250Hz Q=2,5 B/W=0,57 Gain: -1,0dB Var. 4k-range level (0...-2,0dB)