

Guideline how to set active DSP X-Over

Starting-Point Settings with GermanMAESTRO

Car Speaker Systems for active application

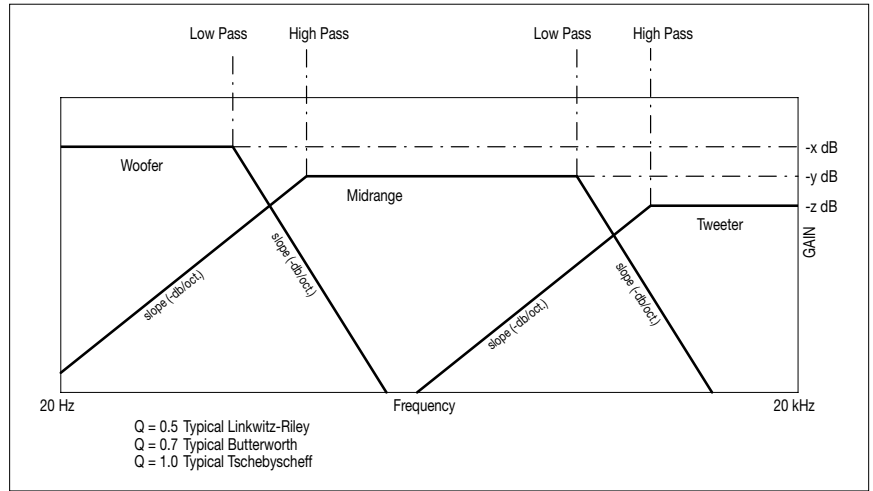
Applicable with **EPIC ES 804010**

Standard setting – mirroring systems’ frequency curves as fired by its specific GermanMAESTRO passive x-over

Preliminary note:

- > This recommendation for active DSP x-over settings provides a SPL frequency curve similarly to application with the German-MAESTRO passive x-over at 0° speakers’ standard position to the listeners’ ears.
- > Use these settings as your starting point to adjust now the speaker system’s x-over settings towards best sound performance achievements according the specific needs resulting from the speakers installation environment.

3-way System



Woofer					Midrange					Tweeter							
Low Pass (Hz)	Q	Slope (-dB/oct.)	Gain (dB)	Phase (degree)	High Pass (Hz)	Q	Slope (-dB/oct.)	Low Pass (Hz)	Q	Slope (-dB/oct.)	Gain (dB)	Phase (degree)	High Pass (Hz)	Q	Slope (-dB/oct.)	Gain (dB)	Phase (degree)
100	1	12	-3	180	250 - 110	0,7	12	2.500	0,7	12	-2	0	6.000	0,7	12	0	0

EPIC Tweeter ET 20 WS

Frequency response/harmonic distortion relation:

- > This scheme shows the ET 20 WS tweeters’ harmonic distortion behaviour related to its frequency response. The 1% harmonic distortion point is at 3,2 KHz.
- > To avoid any serious damages on tweeters, please be always aware that with selected settings of tweeters’ frequency- and slope x-over points below 3.500 Hz. the tweeters’ applied SPL power-load has to be lowered in an appropriate manner.

