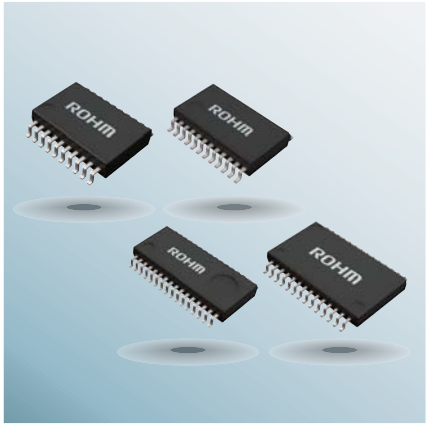
ROHM SEMICONDUCTOR

Product Bulletin

Car Audio Sound Processor ICs

BD375□□ Series



18 types offered compatible with different input / output configurations and performance requirements

Product outline

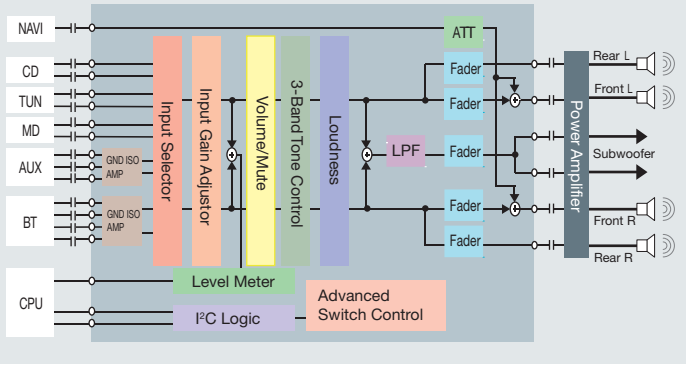
ROHM offers a broad lineup of sound processors for car audio. 18 different models are available, enabling selection of the ideal solution based on set requirements, eliminating extraneous functions. In addition, low distortion and the industry's best switching shock noise prevention capability results in unsurpassed audio quality.

Only coupling capacitors required, simplifying design considerably

Tone and loudness filters are built in, reducing the number of external components required. Simply connect coupling capacitors to configure a high-performance audio system.

Note: Power supply decoupling and bias capacitors are required

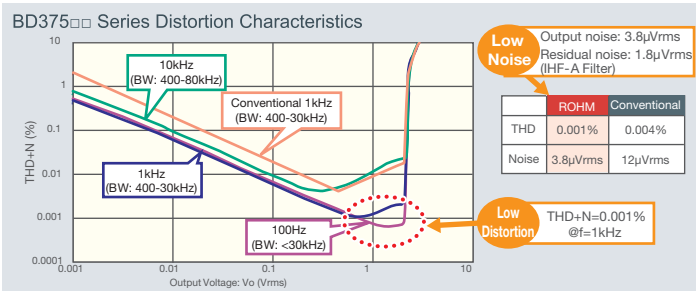
BD37534FV
Block Diagram



Low noise and low distortion ensures high fidelity audio

Advanced switch circuit technology and proprietary high-performance opamp circuitry enable optimization of signal pathways, reducing noise for high quality audio performance (THD: 0.001%, Noise: 3.8μVrms)*.

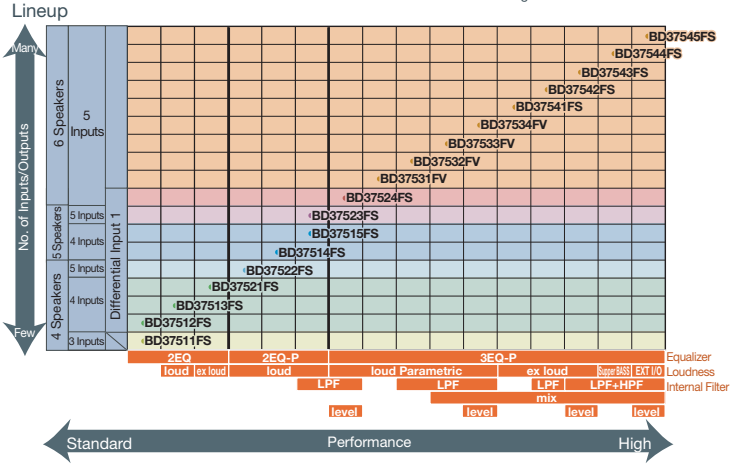
BD375□□ Series Distortion Characteristics



	ROHM	Conventional
THD	0.001%	0.004%
Noise	3.8μVrms	12μVrms

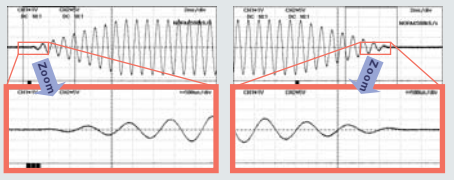
*Excluding BD37511FS and BD37512FS

Lineup



Proprietary switch technology eliminates switching shock noise

Sample Switching Waveforms



ROHM utilizes advanced, proprietary switching technology to smooth discontinuous waveforms during volume switching, resulting in the industry's best shock noise prevention characteristics.

EQ	: Equalizer	**loud Parametric**	: Parametric Loudness	**LPF**	: LPF for Subwoofer
EQ-P	: Parametric Equalizer	**Super Bass**	: Super Bass	**LPF+HPF**	: LPF for Subwoofer and HPF for Door Vibration Dampening
loud	: Loudness	**mix**	: Navigation Voice Mixing		
exloud	: Loudness for OEM	**Level**	: Level Meter Output	**Ext I/O**	: External I/O Pin for DSP

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The content specified in this document is correct as of 17th February, 2010.

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