

車載ADAS用/AVAS用通知音に最適

Ideal for ADAS / AVAS Notification Sounds

Under
Development

ROHM GROUP
LAPIS
SEMICONDUCTOR

車載対応 音声合成LSI

Automotive-Grade Speech Synthesis LSI

ML2253x / ML2212x Series

Features

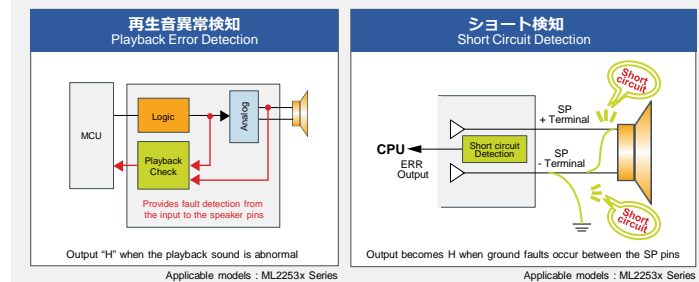
- 多彩なフェイルセーフ機能搭載
LSIの様々な異常を常にモニタ可能
Multiple built-in fail-safe functions enable continuous monitoring of various LSI abnormalities
- 高音質・高圧縮アルゴリズムのHQ-ADPCM*1を搭載
Adopts the high fidelity, high compression algorithm HQ-ADPCM*1
- スピーカンプ内蔵で+105℃動作保証
Integrated speaker amp ; stable operation up to +105°C
- 車速情報に応じた疑似エンジン音の再生が容易
Easily recreates engine sounds matched to vehicle speed

Applications

- 車載メータパネルなどの通知・警告音再生(ADAS)
Notification/warning sound playback from vehicle panels (ADAS)
 - Collision avoidance system
 - Instrument cluster
 - Drive recorder (dash cam)
- 車速情報に応じた疑似エンジン音の再生(AVAS)
Sound recreation based on vehicle speed (AVAS)
 - Hybrid/electric vehicles

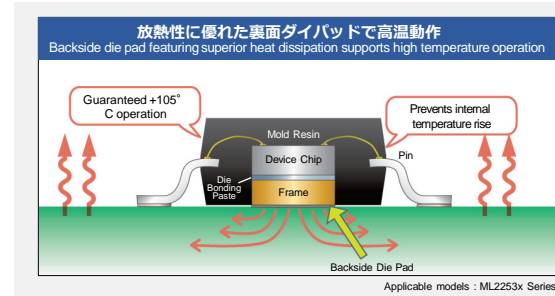
多彩なフェイルセーフ機能搭載

Equipped with a Variety of Fail-Safe Functions



スピーカアンプ内蔵で+105℃動作保証

Integrated Speaker Amp ; Stable Operation Up to +105°C



高音質・高圧縮アルゴリズムのHQ-ADPCM*1を搭載

Adopts the High Fidelity, High Compression Algorithm HQ-ADPCM*1

再生方式 Playback Method	音質 Sound Quality			圧縮率 Compression Rate	1Mbitあたり再生時間(秒) Playback Time per 1Mbit (sec)	
	人の声 Voice	効果音 Sound effect	音楽 Music		Fs*2=8kHz	Fs*2=16kHz
HQ-ADPCM	✓✓✓	✓✓✓	✓✓✓	1/5	40	20
ADPCM	✓✓✓	✓	✓	1/4	32	16
Non-linear PCM	✓✓✓	✓✓	✓✓	1/2	16	8
PCM	✓✓✓	✓✓✓	✓✓✓	1	8	4

Applicable models : ML2253x Series

車速情報に応じた疑似エンジン音の再生が容易

Easily Recreates Engine Sounds Matched to Vehicle Speed



*1: Ky's Technology HQ-ADPCM は、「Ky's」の高音質音声圧縮技術です。「Ky's」は、国立大学法人九州工業大学の登録商標です。
HQ-ADPCM is Ky's high-quality audio compression technique. Ky's is a registered trademark of Kyushu Institute of Technology.

*2: Fs : サンプリング周波数
Sampling frequency