

语音合成LSI

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车载用 语音合成LSI

(LAPIS Technology产品)

存储器内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	AEC-Q100 standard
ML22Q532	2.7 to 3.6 or 3.3 to 5.5	4.096 or 4.000	Built-in External		Flash 2M	4,096	99sec*2	I ² C/ Clock synchronous serial	1.0/ AB-class	4	Rewrite Flash from MCU*/ Serial Audio Interface/ Failure detection	P-TQFP48 -0707-0.50-Z6K6-MC	YES	✓
ML22Q533					Flash 4M		202sec*2					P-TQFP48 -0707-0.50-Z6K6-MC	YES	✓
ML22Q274	2.0 to 5.5	4.096	Built-in	-40 to +105	Flash 692K*1	30/62		Clock synchronous serial	1.0/ D-class	1	Disconnection and short circuit detection function	P-TSSOP20 -0225-0.65-TK6	YES	✓
ML22Q284						30	28sec*3	Stand-alone				P-TSSOP20 -0225-0.65-TK6	YES	✓
ML22Q294						30/62		I ² C				P-TSSOP20 -0225-0.65-TK6	YES	✓

存储器外挂型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	AEC-Q100 standard
New ML22120	2.7 to 3.6	4.096	Built-in External	-40 to +105 (+125°)	External maximum 128M	64	17min*6	I ² C/ Clock synchronous serial	-	4	Pitch and volume control 5band Equalizer Serial Audio Interface Failure detection	P-TQFP32 -0707-0.80-ZK6 P-WQFN24 -0404-0.50-A63	YES	-*8
ML22530	2.7 to 3.6 or 3.3 to 5.5	4.096	Built-in External	-40 to +105	External maximum 128M	4,096	109min*7	I ² C/ Clock synchronous serial	1.0/ AB-class	4	Rewrite Flash from MCU*/ Serial Audio Interface/ Failure detection	P-TQFP48 -0707-0.50-Z6K6	YES	✓

HQ-ADPCM是“Ky's”的高音质语音压缩技术。“Ky's”是国立大学法人九州工业大学的注册商标。

- *1 选择30个短语和选择62个短语时为688Kbit
- *2 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间
- *3 用ADPCM2取样，频率为6.4kHz时的最长播放时间
- *4 使用外挂存储器(Max 128Mbit)时，用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间
- *5 使用时钟同步串行时
- *6 使用外挂存储器(Max 128Mbit)时，用16bitPCM取样，频率为8kHz时的最长播放时间
- *7 使用外挂存储器(Max 128Mbit)时，用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间
- *8 符合AEC-Q100标准(计划)

长时间播放 语音合成LSI

(LAPIS Technology产品)

Flash存储器内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time*1	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade	
ML22Q623	2.7 to 3.6 or 3.3 to 5.5	4.096 or 4.000	Built-in External	-40 to +70	Flash 4M	4,096	202sec	Clock synchronous serial	1.0/ AB-class, D-class	4	Rewrite Flash from MCU/ Failure detection	P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	-	✓	
ML22Q624					Flash 8M		406sec					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	-	✓	
ML22Q625					Flash 16M		14min					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	-	✓	
ML22Q626					Flash 32M		27min					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	-	✓	
ML22Q663					Flash 4M		202sec	I ² C				Failure detection	P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	-	✓
ML22Q664					Flash 8M		406sec						P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	-	✓
ML22Q665					Flash 16M		14min						P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	-	✓
ML22Q666					Flash 32M		27min						P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	-	✓


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- *1 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间

短时间播放 语音合成LSI

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D类功放内置型														
Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22Q234	2.0 to 5.5	8.192	Built-in	-40 to +85	Flash 676K*1	30/62	34sec*3	Clock synchronous serial	1.0/ D-class	1	Disconnection and short circuit detection function	P-TSSOP20 -0225-0.65-TK6	-	✓
ML22Q244					Flash 692K*2			Stand-alone				P-TSSOP20 -0225-0.65-TK6	-	✓
ML22Q254					Flash 676K*1			I²C				P-TSSOP20 -0225-0.65-TK6	-	✓


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- *1 选择30个短语和选择62个短语时为676Kbit
- *2 选择30个短语和选择62个短语时为688Kbit
- *3 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间

支持外挂存储器 语音合成LSI

(LAPIS Technology产品)

AB类功放/D类功放内置型														
Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22620	2.7 to 3.6 or 3.3 to 5.5	4.096 or 4.000	Built-in External	-40 to +85	External maximum 128M	4,096	109min*1	Clock synchronous serial	1.0/ AB-class, D-class	4	Rewrite Flash from MCU/ Failure detection	P-TQFP32 -0707-0.80-Z6K6 P-WQFN32 -0505-0.50-A63	-	✓
ML22660								I²C			Failure detection	P-TQFP32 -0707-0.80-Z6K6 P-WQFN32 -0505-0.50-A63	-	✓
AB类功放内置型														
Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22420	2.7 to 5.5	4.096	External	-40 to +85	External maximum 128M	1,024	87min*2	Clock synchronous serial	0.7/ AB-class	4	-	P-SSOP30 -56-0.65-ZK6	-	✓
ML22460								I²C			P-SSOP30 -56-0.65-ZK6	-	✓	

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- *1 使用外挂存储器(Max 128Mbit)时，用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间
- *2 使用外挂存储器(Max 128Mbit)时，用ADPCM2取样，频率为6.4kHz时的最长播放时间