



# 语音合成LSI

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## 内置大容量P2ROM 语音合成LSI

(LAPIS Semiconductor产品)

I <sup>2</sup> C接口 2ch同时播放 搭载功放														
Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time(sec.) <sup>*1</sup>	CPU I/F	SP Amp. Output(W)/Class	Number of Mixing (Internal)(ch)	DAC (bit)	Others	Package	Halogen Free Support <sup>*5</sup>	Automotive Grade
ML22863	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 4M	4096 <sup>*2</sup>	258	I <sup>2</sup> C	0.7/AB-class	2	16	-	SSOP30	✓	-
ML22864	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 8M	4096 <sup>*2</sup>	520	I <sup>2</sup> C	0.7/AB-class	2	16	-	SSOP30	✓	-
ML22865	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 16M	4096 <sup>*2</sup>	1044	I <sup>2</sup> C	0.7/AB-class	2	16	-	SSOP30	✓	-
I <sup>2</sup> C接口 搭载语速音程变换功能 搭载功放														
ML22763	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 4M	4096 <sup>*2</sup>	258	I <sup>2</sup> C	0.7/AB-class	1	16	Speech-speed and pitch conversion	SSOP30	✓	-
ML22764	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 8M	4096 <sup>*2</sup>	520	I <sup>2</sup> C	0.7/AB-class	1	16	Speech-speed and pitch conversion	SSOP30	✓	-
ML22765	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 16M	4096 <sup>*2</sup>	1044	I <sup>2</sup> C	0.7/AB-class	1	16	Speech-speed and pitch conversion	SSOP30	✓	-
时钟同步串行接口 2ch同时播放 搭载功放														
ML22823	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 4M	4096 <sup>*2</sup>	258	Clock synchronous serial	0.7/AB-class	2	16	-	SSOP30	✓	-
ML22824	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 8M	4096 <sup>*2</sup>	520	Clock synchronous serial	0.7/AB-class	2	16	-	SSOP30	✓	-
ML22825	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 16M	4096 <sup>*2</sup>	1044	Clock synchronous serial	0.7/AB-class	2	16	-	SSOP30	✓	-
时钟同步串行接口 搭载语速音程变换功能 搭载功放														
ML22723	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 4M	4096 <sup>*2</sup>	258	Clock synchronous serial	0.7/AB-class	1	16	Speech-speed and pitch conversion	SSOP30	✓	-
ML22724	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 8M	4096 <sup>*2</sup>	520	Clock synchronous serial	0.7/AB-class	1	16	Speech-speed and pitch conversion	SSOP30	✓	-
ML22725	2.7 to 3.6 or 4.5 to 5.5	4.096	-40 to +85	P2ROM 16M	4096 <sup>*2</sup>	1044	Clock synchronous serial	0.7/AB-class	1	16	Speech-speed and pitch conversion	SSOP30	✓	-
时钟同步串行接口														
ML22802	2.7 to 3.6	4.096	-20 to +85	P2ROM 2M	512 <sup>*3</sup>	131	Clock synchronous serial	-	1	12	-	SSOP30	✓	-
ML22804	2.7 to 3.6	4.096	-20 to +85	P2ROM 4M	1024 <sup>*4</sup>	262	Clock synchronous serial	-	1	12	-	SSOP30	✓	-
ML22808	2.7 to 3.6	4.096	-20 to +85	P2ROM 8M	1024 <sup>*4</sup>	524	Clock synchronous serial	-	1	12	-	SSOP30	✓	-

\*1: ADPCM2取样, 频率为4kHz时的最长播放时间 \*2: 1024个短语(1Bank) × 4Bank \*3: 256个短语(1Bank) × 2Bank \*4: 256个短语(1Bank) × 4Bank  
\*5: 带无卤素标记✓, 表示备有无卤素产品。详细内容请咨询销售人员。

## 内置中小容量Flash/Mask ROM 语音合成LSI

(LAPIS Semiconductor产品)

时钟同步串行接口 4ch同时播放 搭载功放														
Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time(sec.)	CPU I/F	SP Amp. Output(W)/Class	Number of Mixing (Internal)(ch)	DAC (bit)	Others	Package	Halogen Free Support <sup>*3</sup>	Automotive Grade
ML22562	2.7 to 5.5	4.096	-40 to +85	Mask 2M	1024	98 <sup>*1</sup>	Clock synchronization serial	1.0/AB-class	4	16	Fail safe	SSOP30	✓	-
ML22563/ ML222Q563	2.7 to 5.5	4.096	-40 to +85	Mask/Flash 4M	1024	201 <sup>*1</sup>	Clock synchronization serial	1.0/AB-class	4	16	Fail safe	SSOP30	✓	-
时钟同步串行接口 4ch同时播放 搭载功放 支持105°C														
ML22572	2.7 to 5.5	4.096	-40 to +105	Mask 2M	1024	98 <sup>*1</sup>	Clock synchronization serial	1.0/AB-class	4	16	Fail safe	SSOP30	✓	YES
ML22573/ ML222Q573	2.7 to 5.5	4.096	-40 to +105	Mask/Flash 4M	1024	201 <sup>*1</sup>	Clock synchronization serial	1.0/AB-class	4	16	Fail safe	SSOP30	✓	YES
ML222Q553	4.5 to 5.5	4.096	-40 to +105	Mask 4M	1024	201 <sup>*1</sup>	Clock synchronization serial	1.0/AB-class	4	16	Speaker terminal short circuit detection function	SSOP30	✓	YES
时钟同步串行接口 搭载功放														
ML22321/ ML222Q321	2.3 to 5.5	4.096	-40 to +85	Mask/Flash 920K	62	43 <sup>*1</sup>	Clock synchronization serial	1.0/AB-class	1	16	Disconnection detection/ Temperature protection circuit / Analog volume control	SSOP30	✓	YES
时钟同步串行接口 搭载D类功放														
ML222Q374	2.0 to 5.5	4.096 (Built-in)	-40 to +85	Flash 692K	30	27 <sup>*2</sup>	Clock synchronization serial	1.0/D-class	1	-	Disconnection/Short circuit detection Built-in oscillator	SSOP16	-	YES
I <sup>2</sup> C接口类型 搭载D类功放														
ML222Q394	2.0 to 5.5	4.096 (Built-in)	-40 to +85	Flash 692K	30	27 <sup>*2</sup>	I <sup>2</sup> C	1.0/D-class	1	-	Disconnection/Short circuit detection Built-in oscillator	SSOP16	-	YES

\*1: HQ-ADPCM取样, 频率为6.4kHz时的最长播放时间 \*2: 用ADPCM2取样, 频率为6.4kHz时的最长播放时间  
\*3: 带无卤素标记✓, 表示备有无卤素产品。详细内容请咨询销售人员。  
\*4: 关于AEC-Q100, 请咨询销售人员。

# 对应外挂存储器 语音合成LSI

(LAPIS Semiconductor产品)

4ch同时播放 串行外置存储器 搭载功放														
Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrase	Maximum Playback Time	CPU I/F	SP Amp. Output(W)/ Class	Number of Mixing (Internal) (ch)	DAC (bit)	Others	Package	Halogen Free Support <sup>*6</sup>	Automotive Grade <sup>*7</sup>
ML22460	2.7 to 5.5	4.096	-40 to +85	External maximum 128M	1024	139min.*1	I <sup>2</sup> C	0.7/ AB-class	4	16	-	SSOP30	✓	-
ML22420	2.7 to 5.5	4.096	-40 to +85	External maximum 128M	1024	139min.*1	Clock synchronization Serial	0.7/ AB-class	4	16	-	SSOP30	✓	-
4ch同时播放 Mask ROM内置+串行外置存储器 搭载功放 支持105°C														
ML22594	4.5 to 5.5	4.096	-40 to +105	Mask 6M <sup>*4</sup> External maximum 128M	1024 <sup>*5</sup> (Built-in 512/ External 512)	Built-in 303sec.*2 External 109min.*3	Clock synchronization Serial	1.0/ AB-class	4	16	Speaker terminal short circuit detection function	SSOP30	✓	YES

\*1: 用ADPCM取样, 频率为4kHz时的最长播放时间 \*2: 用HQ-ADPCM取样, 频率为6.4kHz时的最长播放时间  
 \*3: 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  
 \*4: 内置Mask ROM可用6Mbit与外挂存储器(Max.128Mbit)连接。  
 \*5: 内置Mask的512个短语和外挂存储器512个短语的合计值  
 \*6: 带无卤素标记 ✓, 表示备有无卤素产品。详细内容请咨询销售人员。  
 \*7: 关于AEC-Q100, 请咨询销售人员。

