

# 领慧立芯 产品选型手册

LEGENDSEMI

# 公司介绍

## COMPANY PROFILE

苏州领慧立芯科技有限公司（简称：领慧立芯）专注于高性能模拟及混合信号芯片开发设计。创始团队成员均来自知名芯片设计公司，平均设计开发经验大于十年，熟稔产品定义、设计研发、测试量产、运营销售等各个环节。公司致力于中高端数模混合产品的研发，产品主要涉及高精密信号链和集成信号链 MCU/SOC 两大方向，关键性能指标处于业内领先水平，广泛应用于工业控制、新能源、汽车电子、光通信、医疗仪器等领域。

公司股东包括：汇川技术、旭创科技、麦格米特、拓邦股份、固德威等国内知名上市企业。公司坚持以人才为本，以创新为驱动，以市场为导向，持续不断地推出更有竞争力的产品，志在成为高性能模拟及混合信号芯片领域的领军者。



**愿景：** 成为一家百年传奇的半导体公司

**使命：** 关注客户的需求和痛点，持续创新为客户创造最大的价值



# 应用领域

## APPLICATION AREAS

### 工业

#### 电池化成分容系统

LHA7878: 8通道 128kSPS 24位 同步采样ADC  
LHA6958: 8通道 1MSPS 双极性输入 16位 同步采样ADC  
LHR30xx/LHR40xx: 最大温漂3ppm/°C 基准源

#### 压力变送器/工业秤

LH32M0 xx: 集成高精度24位ADC Cortex-M0 MCU  
LHA9924: 64kSPS 24位高精度ADC  
LH001-55: 4通道32ksps 24位高精度ADC  
LHA7668: 8通道集成PGA 24位高精度ADC

#### 工业测温

LHA79xx系列: 超低功耗4kSPS 24位 ADC

#### 数据采集

LHA89xx系列: 18位 1MSPS ADC  
LHA9954/LHA7732: 32位128kSPS ADC  
LHA6958: 8通道 1MSPS 双极性输入 16位 同步采样ADC

#### 半导体测试设备

LHA6958: 8通道 1MSPS 双极性输入 16位 同步采样ADC  
LHR30xx/LHR40xx: 最大温漂3ppm/°C 基准源

### 医疗

#### 心电信号采集

LH001-91: 单导联全集成心电信号采集模拟前端  
LHE7908: 8通道 12导联心电信号采集模拟前端  
LHA7878: 8通道 128kSPS 24位同步采样 ADC

#### 脑电信号采集

LH001-99: 单通道 脑电信号采集模拟前端  
LHE7909: 8通道 同步采样心电信号采集模拟前端

#### 超声多普勒采集

LHA8951: 18位 1MSPS SAR ADC

#### 监护仪

LHE7908: 8通道 12导联心电信号采集模拟前端  
LHA7668: 8通道 集成PGA 24位高精度ADC  
LHR30xx/LHR40xx: 最大温漂3ppm/°C 基准源

### 光通信

#### 200G以上光模块控制

LH32M3x: 集成12位ADC Cortex M3 256kB Flash  
32kB SRAM MCU  
LH5312: 高精度 集成硅光控制AFE

#### EDFA

LHA8841: SOT23封装小尺寸 2.5MSPS 14位ADC



A close-up, high-angle photograph of a microchip on a printed circuit board (PCB). The chip is square and has a blue logo on its top surface. The PCB is blue and populated with various electronic components like capacitors and resistors.

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01 **集成高精度ADC MCU**

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03 **高精度SAR ADC**

06 **高精度基准源**

Part Number	CPU	Frequency (MHz)	Flash Size (KB)	SRAM Size (KB)	ADC	DAC (Bits)	GPIO	Timer	UART	I <sup>2</sup> C	SPI	Analog Comparator	LCD Driver	Operating temperature range (°C)	Package Group
LH32M3C46CWZG	Cortex-M3	72	2x128	32	12bits SAR 1MSPS	4x12bit	38	4	1	3	3	4	NA	-40~+125	WLCSP72
LH32M3E46CWZG	Cortex-M3	72	2x128	32	16bits SAR 1MSPS	4x12bit	38	4	1	3	3	4	NA	-40~+125	WLCSP72
LH32M3E46CQBG	Cortex-M3	72	2x128	32	16bits SAR 2MSPS	2x12bit	38	4	1	3	3	4	NA	-40~+125	QFN64
LH32M0S32B5GG	Cortex-M0	32	128	4	24bits $\Delta$ - $\Sigma$ $\leq$ 8kSPS	NA	35	2	1	1	1	1	1	-40~+125	SSOP24
LH32M0S32BLMG	Cortex-M0	32	128	4	24bits $\Delta$ - $\Sigma$ $\leq$ 8kSPS	NA	35	2	1	1	1	1	1	-40~+125	LQFP48
LH32M0S328SGE	Cortex-M0	32	64	4	24bits $\Delta$ - $\Sigma$ $\leq$ 8kSPS	NA	35	2	1	1	1	1	1	-40~+85	SSOP24
LH32M0S328LME	Cortex-M0	32	64	4	24bits $\Delta$ - $\Sigma$ $\leq$ 8kSPS	NA	35	2	1	1	1	1	1	-40~+85	LQFP48
LH32M0S32BQME	Cortex-M0	32	128	4	24bits $\Delta$ - $\Sigma$ $\leq$ 8kSPS	NA	35	2	1	1	1	1	1	-40~+85	QFN48

Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	SNR (dB)	INL (PPM/FS)	THD (dB)	ODR (kSPS)	CMRR (dB)	PGA Gain	Power Dissipation (mW)	Interface Type	Operating temperature range (°C)	Package Group	对标产品型号
LH001-55	4(8)	24		±13		30		1,2,4,6,8,12,24,48	1.65	SPI	-40~+125	QFN40	ADS1256, ADS1258, AD7124
LHA7724SEQG	4	24		±1		128			5.5/9.1	SPI	-40~+85	QFN24	
LHA7732HEQG	4	32	136	±1	-122	64	126		3.8/6	SPI	-40~+125	QFN24	
LHA9954HEQG	4	32	135	±1	-130	4/64	126	1,2,4,8,16,32,64	7/12	SPI	-40~+125	QFN24	ADS1284, ADS1283
LHA9924HEQG	4	24		±1		4/64		1,2,4,8,16,32,64	7/12	SPI	-40~+85	QFN24	AD7190, CS5530
LHA9934HEQG	4	32	135	±1	-130	16/64	126	1,2,4,8,16,32,64	7/12	SPI	-40~+125	QFN24	ADS1284, ADS1283
LHA9932HETI	4	32	135	±1	-130	4/64	126	1,2,4,8,16,32,64	12	SPI	-40~+125	TSSOP28	ADS1282
LHA9937HEQG	2	32	123	±1	-125	1	126	1,2,4,8,16	2.4/4.5	SPI	-40~+125	QFN24	ADS1287
LHA7904CFMBI	2(4)	12		±8		4		1/3,1/2,1,2,4,8,32	0.5	I <sup>2</sup> C	-40~+125	MSOP10	ADS1015
LHA7914EFMBI	2(4)	16		±8		1		1/3,1/2,1,2,4,8,32	0.5	I <sup>2</sup> C	-40~+125	MSOP10	ADS1115
LHA7924GFMBI	2(4)	24		±8		1		1/3,1/2,1,2,4,8,32	0.5	I <sup>2</sup> C	-40~+125	MSOP10	ADS1115 24位升级
LHA7904CFDBI	2(4)	12		±8		4		1/3,1/2,1,2,4,8,32	0.5	I <sup>2</sup> C	-40~+125	DFN10	ADS1015
LHA7914EFDBI	2(4)	16		±8		1		1/3,1/2,1,2,4,8,32	0.5	I <sup>2</sup> C	-40~+125	DFN10	ADS1115
LHA7924GFDBI	2(4)	24		±8		1		1/3,1/2,1,2,4,8,32	0.5	I <sup>2</sup> C	-40~+125	DFN10	ADS1115 24位升级
LHA7908CFMBS	2(4)	12		±8		4		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	MSOP10	ADS1018
LHA7918EFMBS	2(4)	16		±8		1		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	MSOP10	ADS1118
LHA7928GFMBBS	2(4)	24		±8		1		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	MSOP10	ADS1118 24位升级

Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	SNR (dB)	INL (PPM/FS)	THD (dB)	ODR (kSPS)	CMRR (dB)	PGA Gain	Power Dissipation (mW)	Interface Type	Operating temperature range (°C)	Package Group	对标产品型号
LHA7908CFDBS	2(4)	12		±8		4		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	DFN10	ADS1018
LHA7918EFDBS	2(4)	16		±8		1		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	DFN10	ADS1118
LHA7928GFDBS	2(4)	24		±8		1		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	DFN10	ADS1118 24位升级
LHA7919EFTEI	2(4)	16		±8		1		1/3,1/2,1,2,4,8,32	0.5	I <sup>2</sup> C	-40~+125	TSSOP16	ADS1119, ADS1219
LHA7929GFTEI	2(4)	24		±8		1		1/3,1/2,1,2,4,8,32	0.5	I <sup>2</sup> C	-40~+125	TSSOP16	ADS1119, ADS1219
LHA7919EFTES	2(4)	16		±8		1		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	TSSOP16	ADS1119, ADS1219
LHA7929GFTEs	2(4)	24		±8		1		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	TSSOP16	ADS1119, ADS1219
LHA7919EFQEI	2(4)	16		±8		1		1/3,1/2,1,2,4,8,32	0.5	I <sup>2</sup> C	-40~+125	QFN16	ADS1119, ADS1219
LHA7929GFQEI	2(4)	24		±8		1		1/3,1/2,1,2,4,8,32	0.5	I <sup>2</sup> C	-40~+125	QFN16	ADS1119, ADS1219
LHA7919EFQES	2(4)	16		±8		1		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	QFN16	ADS1119, ADS1219
LHA7929GFQES	2(4)	24		±8		1		1/3,1/2,1,2,4,8,32	0.5	SPI	-40~+125	QFN16	ADS1119, ADS1219
LHA7874SGLB	4	24	122	±5	-115	128	125	1,2,3,4,6,8,12,24	7	SPI	-40~+85	LQFP64	ADS131E04
LHA7876SGLB	6	24	122	±5	-115	128	125	1,2,3,4,6,8,12,24	12	SPI	-40~+85	LQFP64	ADS131E06
LHA7878SGLB	8	24	122	±5	-115	128	125	1,2,3,4,6,8,12,24	20	SPI	-40~+85	LQFP64	ADS131E08
LHA7878HSGLB	8	24	122	±1	-120	128	125	1,2,3,4,6,8,12,24	20	SPI	-40~+85	LQFP64	高性能版
LHA7864EGLB	4	16	96	±16	-105	128	125	1,2,3,4,6,8,12,24	7	SPI	-40~+85	LQFP64	ADS130E04
LHA7866EGLB	6	16	96	±16	-105	128	125	1,2,3,4,6,8,12,24	12	SPI	-40~+85	LQFP64	ADS130E06
LHA7868EGLB	8	16	96	±16	-105	128	125	1,2,3,4,6,8,12,24	20	SPI	-40~+85	LQFP64	ADS130E08

Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	SNR (dB)	INL (PPM/FS)	THD (dB)	ODR (kSPS)	CMRR (dB)	PGA Gain	Power Dissipation (mW)	Interface Type	Operating temperature range (°C)	Package Group	对标产品型号
LHA7668-8SFQJ	8	24	145	±1	-120	38.4	120	1,2,4,8,16,32,64,128	0.7	SPI	-40~+105	QFN32	AD7124-8
LHA7668-4SFQJ	4	24	145	±1	-120	38.4	120	1,2,4,8,16,32,64,128	0.7	SPI	-40~+105	QFN32	AD7124-4
LHA7668-4SFTG	4	24	145	±1	-120	38.4	120	1,2,4,8,16,32,64,128	0.7	SPI	-40~+105	TSSOP24	AD7124-4



Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	SNR (dB)	INL (PPM/FS)	THD (dB)	ODR (kSPS)	Input Range (V)	Power Dissipation (mW)	Interface Type	Operating temperature range (°C)	Package Group	对标产品型号
LHA8951FEMB	1(Differential)	18	99	±2	-110	1000	±5	6	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8950FEMB	1(Single-Ended)	18	93	±2	-110	1000	0~5	6	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8961DEMB	1(Differential)	16	94	±1	-110	1000	±5	6	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8960DEMB	1(Single-Ended)	16	92	±1	-110	1000	0~5	6	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8941DEMB	1(Differential)	14	86	±0.5	-100	1000	±5	6	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8940DEMB	1(Single-Ended)	14	84	±0.5	-100	1000	0~5	6	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8951CEMB	1(Differential)	18	99	±2	-110	500	±5	4	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8950CEMB	1(Single-Ended)	18	93	±2	-110	500	0~5	4	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8961CEMB	1(Differential)	16	94	±1	-110	500	±5	4	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8960CEMB	1(Single-Ended)	16	92	±1	-110	500	0~5	4	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8941CEMB	1(Differential)	14	86	±0.5	-100	500	±5	4	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8940CEMB	1(Single-Ended)	14	84	±0.5	-100	500	0~5	4	SPI/QSPI	-40~+85	MSOP10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8951FEDB	1(Differential)	18	99	±2	-120	1000	±5	6	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX

Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	SNR (dB)	INL (PPM/FS)	THD (dB)	ODR (kSPS)	Input Range (V)	Power Dissipation (mW)	Interface Type	Operating temperature range (°C)	Package Group	对标产品型号
LHA8950FEDB	1(Single-Ended)	18	93	±2	-120	1000	0~5	6	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8961DEDB	1(Differential)	16	94	±1	-110	1000	±5	6	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8960DEDB	1(Single-Ended)	16	92	±1	-110	1000	0~5	6	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8941DEDB	1(Differential)	14	86	±0.5	-100	1000	±5	6	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8940DEDB	1(Single-Ended)	14	84	±0.5	-100	1000	0~5	6	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8951CEDB	1(Differential)	18	99	±2	-120	500	±5	4	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8950CEDB	1(Single-Ended)	18	93	±2	-120	500	0~5	4	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8961CEDB	1(Differential)	16	94	±1	-110	500	±5	4	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8960CEDB	1(Single-Ended)	16	92	±1	-110	500	0~5	4	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8941CEDB	1(Differential)	14	86	±0.5	-100	500	±5	4	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA8940CEDB	1(Single-Ended)	14	84	±0.5	-100	500	0~5	4	SPI/QSPI	-40~+85	DFN10	ADS888X, ADS886X, ADS831X, AD798X, AD7690, AD7691, AD768X, AD7915, AD7916, AD40XX
LHA6958HFLB	8	16	91	±1	-105	1000	±12.5,±10, ±5,±2.5	230	SPI PARALLEL	-40~+125	LQFP64	AD7606, AD7606B, AD7606C, ADS8588
LHA6956HFLB	6	16	91	±1	-105	1000	±12.5,±10, ±5,±2.5	180	SPI PARALLEL	-40~+125	LQFP64	AD7606, AD7606B, AD7606C, ADS8588

Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	SNR (dB)	INL (PPM/FS)	THD (dB)	ODR (kSPS)	Input Range (V)	Power Dissipation (mW)	Interface Type	Operating temperature range (°C)	Package Group	对标产品型号
LHA6954HFLB	4	16	91	±1	-105	1000	±12.5, ±10, ±5, ±2.5	130	SPI PARALLEL	-40~+125	LQFP64	AD7606, AD7606B, AD7606C, ADS8588
LHA6958DFLB	8	16	91	±1	-105	500	±10, ±5	230	SPI PARALLEL	-40~+125	LQFP64	AD7606, AD7606B, AD7606C, ADS8588
LHA6956DFLB	6	16	91	±1	-105	500	±10, ±5	180	SPI PARALLEL	-40~+125	LQFP64	AD7606, AD7606B, AD7606C, ADS8588
LHA6954DFLB	4	16	91	±1	-105	500	±10, ±5	130	SPI PARALLEL	-40~+125	LQFP64	AD7606, AD7606B, AD7606C, ADS8588
LHA8831FFBA	1(Single-Ended)	12	72	±0.5	-85	2500	2.048, 4.096	14	SPI	-40~+125	TSOT-23-8	LTC2313, LTC2312
LHA8841FFBA	1(Single-Ended)	14	77	±1	-85	2500	2.048, 4.096	14	SPI	-40~+125	TSOT-23-8	LTC2313, LTC2312
LHA6916DFLS	16	16	92	±1	-105	1000	±12.5, ±10, ±5, ±2.5		SPI PARALLEL	-40~+125	LQFP80	AD7616, ADS8686S
LHA6916-PDFLS	16	16	92	±1	-105	1000	±12.5, ±10, ±5, ±2.5		PARALLEL	-40~+125	LQFP80	AD7616-P
LHA8959-16CEQP	8	16	92	±1	-106	500	5/4.096/2.5	20	SPI	-40~+85	QFN20	AD7699
LHA8959-16CEWP	8	16	92	±1	-106	500	5/4.096/2.5	20	SPI	-40~+85	WLCSP20	AD7699
LHA8959-18DEQP	8	18	93	±1	-106	750	5/4.096/2.5	25	SPI	-40~+85	QFN20	提速版
LHA8959-18DEWP	8	18	93	±1	-106	750	5/4.096/2.5	25	SPI	-40~+85	WLCSP20	提速版
LHA8949-16BEQP	8	16	92	±1	-106	250	5/4.096/2.5	10	SPI	-40~+85	QFN20	AD7689A/B/C
LHA8949-16BEWP	8	16	92	±1	-106	250	5/4.096/2.5	10	SPI	-40~+85	WLCSP20	AD7689A/B/C
LHA8949-18BFQP	8	18	92	±1	-106	250	5/4.096/2.5	10	SPI	-40~+85	QFN20	精度提升
LHA8949-18BFWP	8	18	92	±1	-106	250	5/4.096/2.5	10	SPI	-40~+85	WLCSP20	精度提升
LHA8949-14BGQP	8	16	92	±1	-106	250	5/4.096/2.5	10	SPI	-40~+85	QFN20	AD7949

Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	SNR (dB)	INL (PPM/FS)	THD (dB)	ODR (kSPS)	Input Range (V)	Power Dissipation (mW)	Interface Type	Operating temperature range (°C)	Package Group	对标产品型号
LHA8949-14BGWP	8	16	92	±1	-106	250	5/4.096/2.5	10	SPI	-40~+85	WLCSP20	AD7949
LHA8952-16BGQP	4	16	92	±1	-106	250	5/4.096/2.5	10	SPI	-40~+85	QFN20	AD7682
LHA8952-16BGWP	4	16	93	±1	-106	250	5/4.096/2.5	10	SPI	-40~+85	WLCSP20	AD7682



Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	INL (PPM/FS)	ODR (kSPS)	CMRR (dB)	PGA Gain	Power Dissipation (mW)	Interface Type	Operating temperature range (°C)	Package Group	对标产品型号
LH001-91Q40AR2	1	24	±2	8	117	1,2,4,6,8,12,24,48	0.95	SPI	-40~+85	QFN40	ADS1291
LH001-91W30AR2	1	24	±2	8	117	1,2,4,6,8,12,24,48	0.95	SPI	-40~+85	WLCSP30	ADS1291
LH001-99Q40AR2	1	24	±2	8	117	1,2,4,6,8,12,24,48	2.2	SPI	-40~+85	QFN40	ADS1299
LH001-99W30AR2	1	24	±2	8	117	1,2,4,6,8,12,24,48	2.2	SPI	-40~+85	WLCSP30	ADS1299
LHE7914EEENBA	4	16	±8	16	125	1,2,3,4,6,8,12,24	5(HP), 3(LP)	SPI	-40~+85	BGA64	ADS1194
LHE7914EEELBA	4	16	±8	16	125	1,2,3,4,6,8,12,24	5(HP), 3(LP)	SPI	-40~+85	LQFP64	ADS1194
LHE7916EEENBA	6	16	±8	16	125	1,2,3,4,6,8,12,24	7(HP), 4.5(LP)	SPI	-40~+85	BGA64	ADS1196
LHE7916EEELBA	6	16	±8	16	125	1,2,3,4,6,8,12,24	7(HP), 4.5(LP)	SPI	-40~+85	LQFP64	ADS1196
LHE7918EEENBA	8	16	±8	16	125	1,2,3,4,6,8,12,24	9(HP), 6(LP)	SPI	-40~+85	BGA64	ADS1198
LHE7918EEELBA	8	16	±8	16	125	1,2,3,4,6,8,12,24	9(HP), 6(LP)	SPI	-40~+85	QFP64	ADS1198
LHE7904GSENB	4	24	±2	64	125	1,2,3,4,6,8,12,24	5(HP), 3(LP)	SPI	-40~+85	BGA64	ADS1294
LHE7904GSELBN	4	24	±2	64	125	1,2,3,4,6,8,12,24	5(HP), 3(LP)	SPI	-40~+85	LQFP64	ADS1294
LHE7906GSENB	6	24	±2	64	125	1,2,3,4,6,8,12,24	7(HP), 4.5(LP)	SPI	-40~+85	BGA64	ADS1296
LHE7906GSELBN	6	24	±2	64	125	1,2,3,4,6,8,12,24	7(HP), 4.5(LP)	SPI	-40~+85	LQFP64	ADS1296
LHE7908GSENB	8	24	±2	64	125	1,2,3,4,6,8,12,24	9(HP), 6(LP)	SPI	-40~+85	BGA64	ADS1298
LHE7908GSELBN	8	24	±2	64	125	1,2,3,4,6,8,12,24	9(HP), 6(LP)	SPI	-40~+85	LQFP64	ADS1298
LHE7904ESENBA	4	24	±2	16	125	1,2,3,4,6,8,12,24	1.8	SPI	-40~+85	BGA64	ADS1294

Part Number	Input Channels Differential (Single-Ended)	Resolution (Bits)	INL (PPM/FS)	ODR (kSPS)	CMRR (dB)	PGA Gain	Power Dissipation (mW)	Interface Type	Operating temperature range (°C)	Package Group	对标产品型号
LHE7904ESELBA	4	24	±2	16	125	1,2,3,4,6,8,12,24	1.8	SPI	-40~+85	LQFP64	ADS1294
LHE7906ESENBA	6	24	±2	16	125	1,2,3,4,6,8,12,24	2.4	SPI	-40~+85	BGA64	ADS1296
LHE7906ESELBA	6	24	±2	16	125	1,2,3,4,6,8,12,24	2.4	SPI	-40~+85	LQFP64	ADS1296
LHE7908ESENBA	8	24	±2	16	125	1,2,3,4,6,8,12,24	3	SPI	-40~+85	BGA64	ADS1298
LHE7908ESELBA	8	24	±2	16	125	1,2,3,4,6,8,12,24	3	SPI	-40~+85	LQFP64	ADS1298
LHE7909-4FSELBB	4	24	±2	32	125	1,2,3,4,6,8,12,24	10	SPI	-40~+85	LQFP64	ADS1299
LHE7909-6FSELBB	6	24	±2	32	125	1,2,3,4,6,8,12,24	14	SPI	-40~+85	LQFP64	ADS1299
LHE7909-8FSELBB	8	24	±2	32	125	1,2,3,4,6,8,12,24	18	SPI	-40~+85	LQFP64	ADS1299

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Part Number	VDAC Channels	Resolution (Bits)	INL (LSB)	IDAC Channels	Output Current(mA)	Interface Type	Operating temperature range (°C)	Package Group
LHE5312CGWN	12	12	±2	4	200	I <sup>2</sup> C/SPI	-40~+105	WLCSP56

Part Number	Power Supply (V)	Output Voltage (V)	Temp Drift (ppm/°C)	Initial accuracy (%)	Current Load (mA)	Noise (uVp-p/V)	Long-term Stability (1000hrs)(ppm)	Operating temperature range (°C)	Package Group	对标产品型号
LHR3020AFMA	2.7~18	2.048	3	0.05	±10	1.5	50	-40~+125	MSOP8	REF5020, ADR4520
LHR3020AFAA	2.7~18	2.048	3	0.05	±10	1.5	100	-40~+125	SOP8	REF5020, ADR4520
LHR3025AFMA	2.7~18	2.5	3	0.05	±10	1.5	50	-40~+125	MSOP8	REF5025, ADR4525
LHR3025AFAA	2.7~18	2.5	3	0.05	±10	1.5	100	-40~+125	SOP8	REF5025, ADR4525
LHR3030AFMA	2.7~18	3	3	0.05	±10	1.5	50	-40~+125	MSOP8	REF5030, ADR4530
LHR3030AFAA	2.7~18	3	3	0.05	±10	1.5	100	-40~+125	SOP8	REF5030, ADR4530
LHR3040AFMA	2.7~18	4.096	3	0.05	±10	1.5	50	-40~+125	MSOP8	REF5040, ADR4540
LHR3040AFAA	2.7~18	4.096	3	0.05	±10	1.5	100	-40~+125	SOP8	REF5040, ADR4540
LHR3045AFMA	2.7~18	4.5	3	0.05	±10	1.5	50	-40~+125	MSOP8	REF5045
LHR3045AFAA	2.7~18	4.5	3	0.05	±10	1.5	100	-40~+125	SOP8	REF5045
LHR3050AFMA	2.7~18	5	3	0.05	±10	1.5	50	-40~+125	MSOP8	REF5050, ADR4550
LHR3050AFAA	2.7~18	5	3	0.05	±10	1.5	100	-40~+125	SOP8	REF5050, ADR4550
LHR3020BFMA	2.7~18	2.048	8	0.1	±10	1.5	50	-40~+125	MSOP8	REF5020, ADR4520
LHR3020BFAA	2.7~18	2.048	8	0.1	±10	1.5	100	-40~+125	SOP8	REF5020, ADR4520
LHR3025BFMA	2.7~18	2.5	8	0.1	±10	1.5	50	-40~+125	MSOP8	REF5025, ADR4525
LHR3025BFAA	2.7~18	2.5	8	0.1	±10	1.5	100	-40~+125	SOP8	REF5025, ADR4525
LHR3030BFMA	2.7~18	3	8	0.1	±10	1.5	50	-40~+125	MSOP8	REF5030, ADR4530

Part Number	Power Supply (V)	Output Voltage (V)	Temp Drift (ppm/°C)	Initial accuracy (%)	Current Load (mA)	Noise (uVp-p/V)	Long-term Stability (1000hrs)(ppm)	Operating temperature range (°C)	Package Group	对标产品型号
LHR3030BFAA	2.7~18	3	8	0.1	±10	1.5	100	-40~+125	SOP8	REF5030, ADR4530
LHR3040BFMA	2.7~18	4.096	8	0.1	±10	1.5	50	-40~+125	MSOP8	REF5040, ADR4540
LHR3040BFAA	2.7~18	4.096	8	0.1	±10	1.5	100	-40~+125	SOP8	REF5040, ADR4540
LHR3045BFMA	2.7~18	4.5	8	0.1	±10	1.5	50	-40~+125	MSOP8	REF5045
LHR3045BFAA	2.7~18	4.5	8	0.1	±10	1.5	100	-40~+125	SOP8	REF5045
LHR3050BFMA	2.7~18	5	8	0.1	±10	1.5	50	-40~+125	MSOP8	REF5050, ADR4550
LHR3050BFAA	2.7~18	5	8	0.1	±10	1.5	100	-40~+125	SOP8	REF5050, ADR4550
LHR4020CFMA	2.5~5.5	2.048	10	0.05	±10	10	50	-40~+125	MSOP8	
LHR4020CFAA	2.5~5.5	2.048	10	0.05	±10	10	50	-40~+125	SOP8	
LHR4020CFGR	2.5~5.5	2.048	10	0.05	±10	10	50	-40~+125	SOT23-3	REF30xx, REF31xx, REF33xx, MAX6018
LHR4025CFMA	2.5~5.5	2.5	10	0.05	±10	10	50	-40~+125	MSOP8	
LHR4025CFAA	2.5~5.5	2.5	10	0.05	±10	10	50	-40~+125	SOP8	SGM4029
LHR4025CFGR	2.5~5.5	2.5	10	0.05	±10	10	50	-40~+125	SOT23-3	REF30xx, REF31xx, REF33xx
LHR4030CFMA	2.5~5.5	3	10	0.05	±10	10	50	-40~+125	MSOP8	
LHR4030CFAA	2.5~5.5	3	10	0.05	±10	10	50	-40~+125	SOP8	SGM4029
LHR4030CFGR	2.5~5.5	3	10	0.05	±10	10	50	-40~+125	SOT23-3	REF30xx, REF31xx, REF33xx
LHR4033CFMA	2.5~5.5	3.3	10	0.05	±10	10	50	-40~+125	MSOP8	



Part Number	Power Supply (V)	Output Voltage (V)	Temp Drift (ppm/°C)	Initial accuracy (%)	Current Load (mA)	Noise (uVp-p/V)	Long-term Stability (1000hrs)(ppm)	Operating temperature range (°C)	Package Group	对标产品型号
LHR4033CFAA	2.5~5.5	3.3	10	0.05	±10	10	50	-40~+125	SOP8	
LHR4033CFGR	2.5~5.5	3.3	10	0.05	±10	10	50	-40~+125	SOT23-3	REF30xx, REF31xx, REF33xx
LHR4040CFMA	2.5~5.5	4.096	10	0.05	±10	10	50	-40~+125	MSOP8	
LHR4040CFAA	2.5~5.5	4.096	10	0.05	±10	10	50	-40~+125	SOP8	SGM4029
LHR4040CFGR	2.5~5.5	4.096	10	0.05	±10	10	50	-40~+125	SOT23-3	REF30xx, REF31xx, REF33xx
LHR4050CFMA	2.5~5.5	5	10	0.05	±10	10	50	-40~+125	MSOP8	
LHR4050CFAA	2.5~5.5	5	10	0.05	±10	10	50	-40~+125	SOP8	
LHR4050CFGR	2.5~5.5	5	10	0.05	±10	10	50	-40~+125	SOT23-3	
LHR4020DFMA	2.5~5.5	2.048	15	0.1	±10	10	100	-40~+125	MSOP8	
LHR4020DFAA	2.5~5.5	2.048	15	0.1	±10	10	100	-40~+125	SOP8	
LHR4020DFGR	2.5~5.5	2.048	15	0.1	±10	10	100	-40~+125	SOT23-3	REF30xx, REF31xx, REF33xx, MAX6018
LHR4025DFMA	2.5~5.5	2.5	15	0.1	±10	10	100	-40~+125	MSOP8	
LHR4025DFAA	2.5~5.5	2.5	15	0.1	±10	10	100	-40~+125	SOP8	SGM4029
LHR4025DFGR	2.5~5.5	2.5	15	0.1	±10	10	100	-40~+125	SOT23-3	REF30xx, REF31xx, REF33xx
LHR4030DFMA	2.5~5.5	3	15	0.1	±10	10	100	-40~+125	MSOP8	
LHR4030DFAA	2.5~5.5	3	15	0.1	±10	10	100	-40~+125	SOP8	SGM4029
LHR4030DFGR	2.5~5.5	3	15	0.1	±10	10	100	-40~+125	SOT23-3	REF30xx, REF31xx, REF33xx

Part Number	Power Supply (V)	Output Voltage (V)	Temp Drift (ppm/°C)	Initial accuracy (%)	Current Load (mA)	Noise (uVp-p/V)	Long-term Stability (1000hrs)(ppm)	Operating temperature range (°C)	Package Group	对标产品型号
LHR4033DFMA	2.5~5.5	3.3	15	0.1	±10	10	100	-40~+125	MSOP8	
LHR4033DFAA	2.5~5.5	3.3	15	0.1	±10	10	100	-40~+125	SOP8	
LHR4033DFGR	2.5~5.5	3.3	15	0.1	±10	10	100	-40~+125	SOT23-3	REF30xx, REF31xx, REF33xx
LHR4040DFMA	2.5~5.5	4.096	15	0.1	±10	10	100	-40~+125	MSOP8	
LHR4040DFAA	2.5~5.5	4.096	15	0.1	±10	10	100	-40~+125	SOP8	SGM4029
LHR4040DFGR	2.5~5.5	4.096	15	0.1	±10	10	100	-40~+125	SOT23-3	REF30xx, REF31xx, REF33xx
LHR4050DFMA	2.5~5.5	5	15	0.1	±10	10	100	-40~+125	MSOP8	
LHR4050DFAA	2.5~5.5	5	15	0.1	±10	10	100	-40~+125	SOP8	
LHR4050DFGR	2.5~5.5	5	15	0.1	±10	10	100	-40~+125	SOT23-3	

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