### 阅读申明

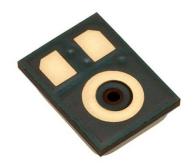
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### Low Noise Zerlobeight SiSon Microphone





The SP2629LR5HB is a miniature, high performance, low power, bottom port

high performance SiSUMEMS technology, the \$2629LR5+B consists of an acoustic sensor, a low noise input buffer, MaxRF protection and an output amplifier. These devices are suitable for applications such as cellphones, UltraStable Performance smart phones, laptop computers, sensors, digital still cameras, portable music recorders, and other portalleletronic devices where excellent wideband audio performance and RF immunity are required.

#### Features:

- Very Low Noise
- Small package
- Low Current
- < ZeroHeight MTM
- Standard SMD Reflow
- Omnidiectional



#### 1. ABSOLUTE MAXIMUM RATINGS

Parameter	Absolute Maximum Ratin	Units
V <sub>DD</sub> to Ground	-0.5, +5.0	V
OUTto Ground	-0.3, ∀ <sub>D</sub> +0.3	V
Input Currento Any Pir	±5	mA
Temperature Ranç	-40 to +100	°C

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device reliability.

#### 2. ACOUSTIC & LECTRICASPECIFICATIONS

TEST CONDITIONS: 23  $\pm 25 \pm 20$  R.H.,  $\frac{1}{100}$  RD  $\frac{1}{100}$  (max), no load, unless otherwise indicated

Parameter	Symbol	Conditions	Min	Тур	Max	Units
Supply Voltage	$V_{DD}$		1.5	-	3.6	V
Supply Currelit	$I_{DD}$		ı	120	165	μΑ
Sensitivity	S	94 dB SPL @ 1 kHz	-41	-38	-35	dBV/Pa
Signal to Noise Ra	SNR	94 dB SPL @ 1 kHzvelighted	ı	65	-	dB(A)
Total Harmoni Distortior	1 11 1	94 dB SPL @ 1 kHz, S = Typ $\Re_{load}$ >2kK	-	0.2	-	%
Acoustic Overloa Point	AOP	10%THD @ 1 kHz, S = Typ, <sub>D</sub> y= 1.8VR <sub>oad</sub> >2kK	-	123	-	dB SPL
Power Suppl Rejection Rati	PSRR	100 mVppinewave,2010 kHz, $V_{DD} = 2.75V$	1	66	-	dB
Power Suppl Rejection	レノヤ	100 mVpp square wave @ 217 Hz,₀y = 1.8V, Aveighted	ı	-95	-	dBV(A)
DC Outpu		$V_{DD} = 1.5V$	-	1.09	-	V
Output Impedance	$Z_{\text{OUT}}$	@ 1 kHz	-	-	400	Κ.
Directivity				Omnic	directio	nal
Polarity		Increasingound pressure	Inc	reasing	g outpu	ıt voltag

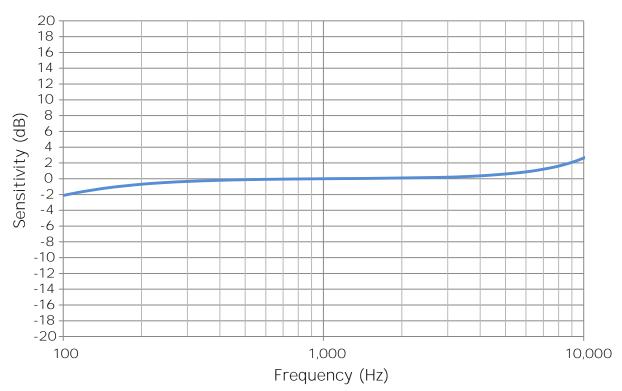
<sup>&</sup>lt;sup>1</sup>100% tested

<sup>&</sup>lt;sup>2</sup>Maximum specifications are measured at maximum pidal specifications are at by 1.8%.



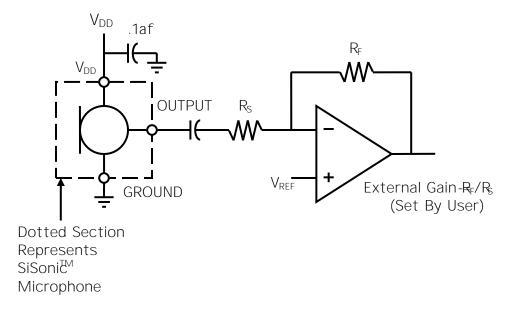
### 3. FREQUENCY RESPONSE CURVE

### Typical Free Field Response Normalized to 1 kHz





### 4. INTERFACE CIRCUIT

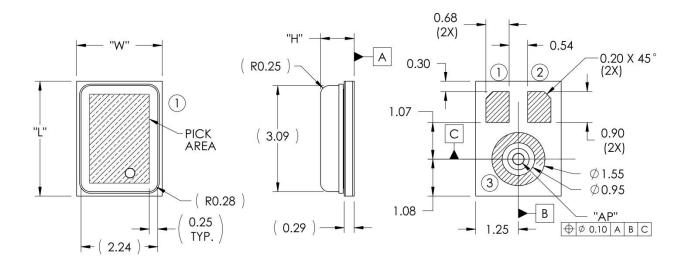


Note: Capacitors nethre microphone should not contain 20 diasectrics.

Detailed information on acoustechanical and system integration can be found in the latest SiSoni EM Design Guidapplication note.



### 5. MECHANICAL SPECIFICATIONS



Item	Dimension	Tolerance
Length (L)	3.35	±010
Width (W)	2.50	±010
Height (H)	0.98	±0.10
Acoustic Port (A	Ø0.25	±0.05

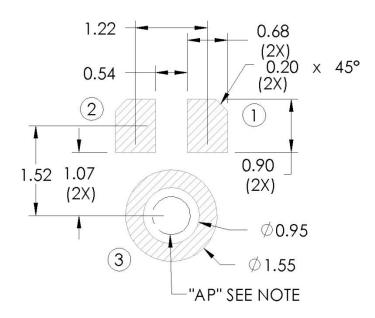
Pin #	Pin Name	Type	Description
1	$V_{DD}$	Power	Power Supply
2	OUTPUT	Signal	OutputSignal
3	GROUND	Power	Ground

Notes:PickArea only extends to 0.25 mm of any edge or hole unlesspettified/ise Dimensions are in millimeters unless otherwise specified.

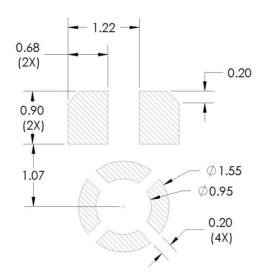
Tolerance is ±0.15mm unless otherwise specified



#### 6. EXAMPLE LAND PATTERN



#### 7. EXAMPLE SOLDER STENCIL PATTERN



Notes:Dimensions are in millimeters unless otherwise specified.

Detailed information on AP size considerations can be found in the size of the

Further optimizations based on application should be performed.



#### 8. PACKAGING & MARING DETAIL

Model Number	Suffix	Reel Diameter	Quantity Per Re
SPA2629LR5#B	-8		5,900

#### Alpha Character A

S KnowlesSiSoni<sup>™</sup>Production

E Knowles Engineering Samples

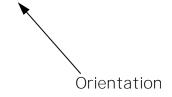
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U Knowles SiSon Productio Malaysia

# Knowles SiSon Production (Suzhou)

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UniqueJob Identification ber for product traceability



**NUMBER"** 

NIU" A

Notes:Dimensions are in millimeters unless otherwise.specified Mark

Vacuumpickup only in the pick area indicated in Mechanical Specifications.

Tape & reel per E4/81.

Labesapplied directly to reel and external package.

Shelf life: Twelve (12) months when devices are to be stored in factory supplied, unopened ESD moisture tiers bag under maximum environmental conditions of 30°C, 70% R.H.