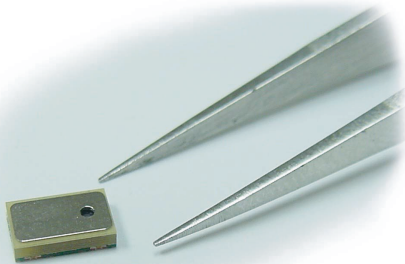




## SiSonic™ Silicon Microphone

# SiSonic™



SiSonic Silicon Microphone  
Enlarged for Clarity

### Product Features

- Surface Mount Microphone
- Compatible with Standard Surface Mount Soldering Process
- Automated Pick 'n' Place Using Standard Equipment
- No Off-Line Soldering or Insertion
- Highly Shock Resistant
- Low Vibration Sensitivity
- Operation at High and Low Temperature
- Ability to Integrate Additional Electronics into Package

### Applications

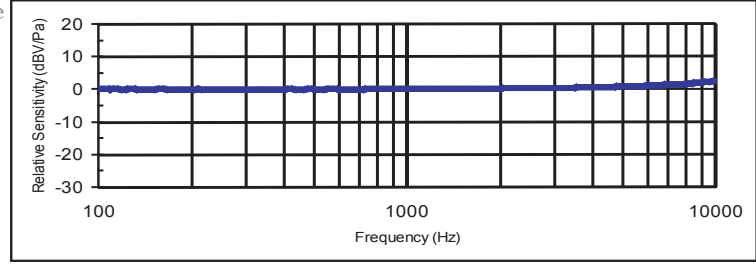
- Cellular Phones
- Corded & Cordless Telephones
- PCs, PC Tablets, Laptops
- PDAs, MP3 Players
- Automotive and Automotive Accessories
- General Electronics



# SiSic<sup>TM</sup>

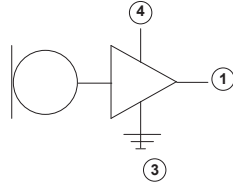
## Product Specifications (at +20°C)

Directional Characteristics	OMNI-DIRECTIONAL
Frequency Range	100Hz to 10kHz
Sensitivity	-42 dB +/- 4 dB (0dB = 1V/Pa @ 1kHz)
Maximum Input Sound Level	120dB for Less than 10% Distortion
Regulated Supply Voltage (Specify Voltage when ordering)	
Voltage Option One	2V DC
Voltage Option Two	3-12V DC
Current Consumption	< 0.5mA @5V DC
Typical Noise Level	35dBA SPL
Typical Frequency Response	



Environmental	
Operating Temperature	-40°C to 100°C
Storage Temperature	-40°C to 100°C

### Block Diagram

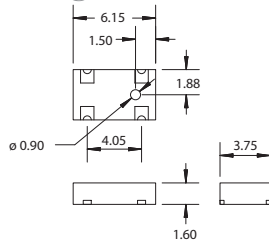


### Pin Output TOP VIEW

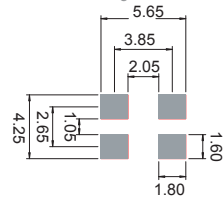
PIN #	FUNCTION
1	OUTPUT
2	NO CONNECTION
3	GROUND
4	POWER

## Package Specifications (All Dimensions in mm)

### Package Dimensions



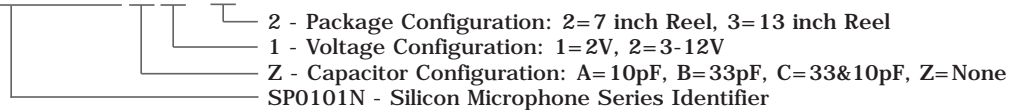
### Land Layout



**Note:** No board washing after solder re-flow

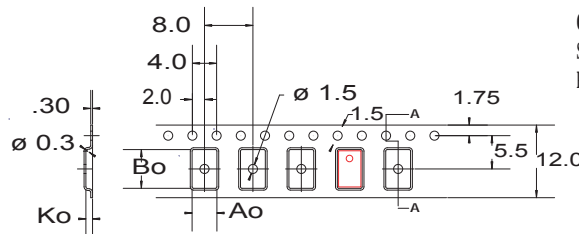
## Model Number System and Ordering Information

### SP0101NZ1-2



### Order Information

Specify Silicon Microphone per model number scheme above.  
Parts specified with different Voltage Configurations can not be interchanged.



**SECTION A - A** Ao = 4.10 (All Dimensions in mm)  
Carrier Tape Detail Bo = 6.40  
Ko = 1.75



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