

Sisonic



SiSonic Silicon Microphone Enlarged for Clarity



SiSonic™ Silicon Microphone

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



Product Specifications (at +20°C)

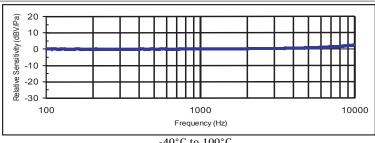
Directional Characteristics	OMNI-DIRECTIONAL
Frequency Range	100Hz to 10kHz
Sensitivity	-42 dB +/- 4 dB (0dB = 1V/Pa @ 1kHz)
Maximum Input Sound Level	120dB for Less than 10% Distortion
Regulated Supply Voltage (Specify Voltage when ordering)	
Voltage Ontion One	OV DC

Voltage Option One 2V DC
Voltage Option Two 2v DC
3-12V DC

Current Consumption < 0.5mA @5V DC

Typical Noise Level 35dBA SPL

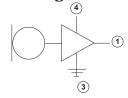
Typical Frequency Response



Environmental

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

Block Diagram



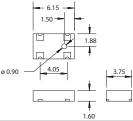
Pin Output TOP VIEW



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

Package Specifications (All Dimensions in mm)

Package Dimensions



3.85 2.05 2.05 1.80

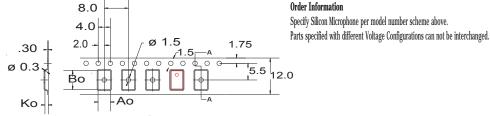
Note: No board washing after solder re-flow

Model Number System and Ordering Information

SP0101NZ1-2

2 - Package Configuration: 2=7 inch Reel, 3=13 inch Reel 1 - Voltage Configuration: 1=2V, 2=3-12V

Z - Capacitor Configuration: A=10pF, B=33pF, C=33&10pF, Z=None SP0101N - Silicon Microphone Series Identifier



SECTION A - A

Carrier Tape Detail

A0 = 4.10
B0 = 6.40
K0 = 1.75

(All Dimensions in mm)

EMKAY, A DIVISION OF KNOWLES ELECTRONICS

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