

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Knowles MD9765ASZ-0

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of Knowles: Excellent Integrated System Limited

Datasheet of MD9765ASZ-0 - MIC COND ANALOG OMNI -42DB

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

EMKAY

PRODUCT SPECIFICATION

Doc: MD9765ASZ-0

This specification applies to the electret condenser microphone outlined within this document.

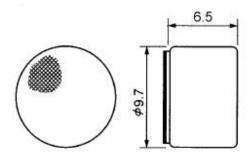
Model Number: **MD9765ASZ-0** Size: Ø 9.7 x 6.5

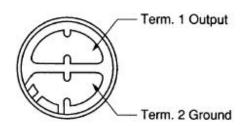
Directivity: OMNI-DIRECTIONAL

Board Type: SOLDER

Capacitor(s) None

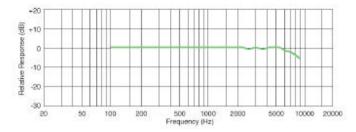
Dimensions: (All dimensions are in mm)



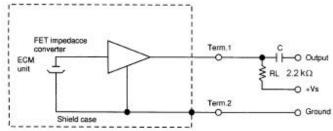


Electrical Specifications			
CHARACTERISTIC	SPECIFICATION VALUES	NOTES	
Directional Characteristic	OMNI-DIRECTIONAL		
Electret Type	CHRG DIA/FOIL		
Sensitivity	$-42 dB \pm 4.0$	(0dB=1 V/Pa, 1kHz)	
Impedance	2.200 kΩ	Less than	
Frequency Range	100-10,000 Hz	Hz	
Max input Sound Level	120dB	S.P.L.	
Standard Operating Voltage	3.0 V	V	
Maximum operating Voltage	10 V	V	
Current Consumption	0.500 mA	Max	
Sensitivity Reduction	Within -3dB at 2V		
S/N Ratio	More than 55 dB		
Capacitor(s)	None		

Frequency Response Curve



Schematic Diagram



EMKAY Innovative Products A Knowles Electronics LLC

1151 Maplewood Drive, Itasca, Illinois 60143

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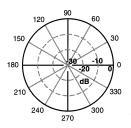
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Polar Pattern:

Polar plot shows reponce of unit at 1000 Hz.



Environmental Specifications

Note: After any of the following tests performed, the sensitivity of the microphone unit shall not deviate more than ±3dB from its initial value. The microphone shall maintain its initial operation and appearance

Operating Temperatur	-25°C to +55°C
Storage Temperature:	-25°C to +50°C
Humidity:	+40°C at 95%RH for 240 hrs
Temperature Cycles:	After exposure at -25°C for 30 minutes, at+20°C for 10 minutes, at +60°C for 30 minutes, at +20°C for 10 minutes, 5 cycles. (The measurement to be done after 2 hrs of conditioning at +20°C.)
Low Temperature:	The microphone unit must operate within its sensitivity specifications after subjected to the following conditions: -25°C for 240 hrs, and exposed to room temperature for 2 hrs.
High Temperature:	The microphone unit must operate within its sensitivity specifications after subjected to the following conditions: +60°C for 240 hrs, and exposed to room temperature for 2 hrs.
ESD:	10kV
Vibration:	The microphone to have no interferance in operation after vibrations, 10Hz to 55Hz for 1 minute full amplitude 1.52mm, for 2 hours at three axises.
Impact:	The microphone unit must operate when dropped three times once on each axis from a height of 1m onto a metal plate.
Solder Pull:	0.5kg each Pad

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