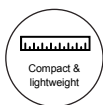




MI SERIES MAGNETIC INDICATORS

Self-driven magnetic indicators with rich sound quality and low frequency response



Applications

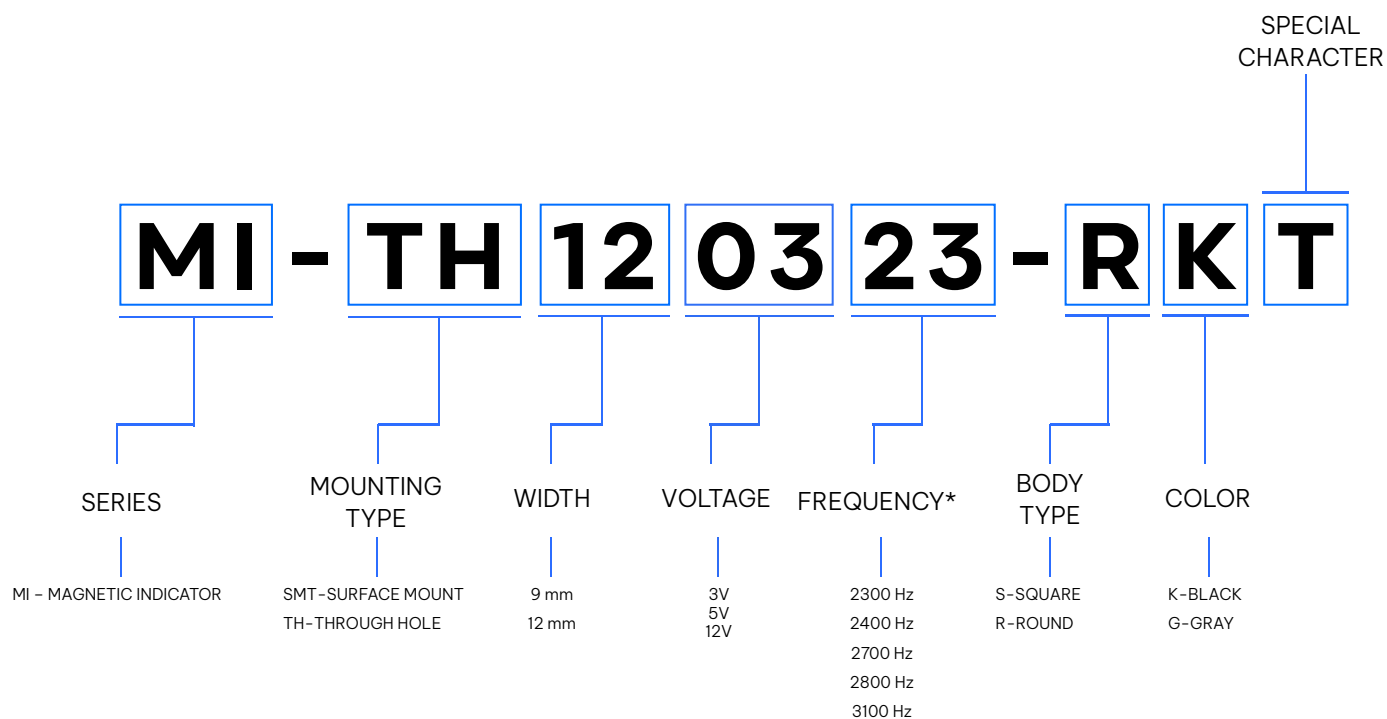
- Industrial
- Medical
- Automotive
- Automation & Controls
- Communications
- Robotics
- IoT
- Security Systems

Key Features

- Internal driving circuitry for seamless integration into existing designs
- Plug & play design
- Rich single tone & crisp sound quality
- Good low-frequency response from 2.3 to 3.1 KHz
- Available sizes 9.0 to 12.7mm, round or square shapes
- SMD or Through-hole mounting options
- Low voltage consumption: 3V, 5V & 12V options.
- ROHS compliant



SKU Offering



*The frequency is specified using a two-digit code. The code represents the frequency value in hundreds of Hertz (×100 Hz). Unless otherwise stated, all frequency codes follow this convention.

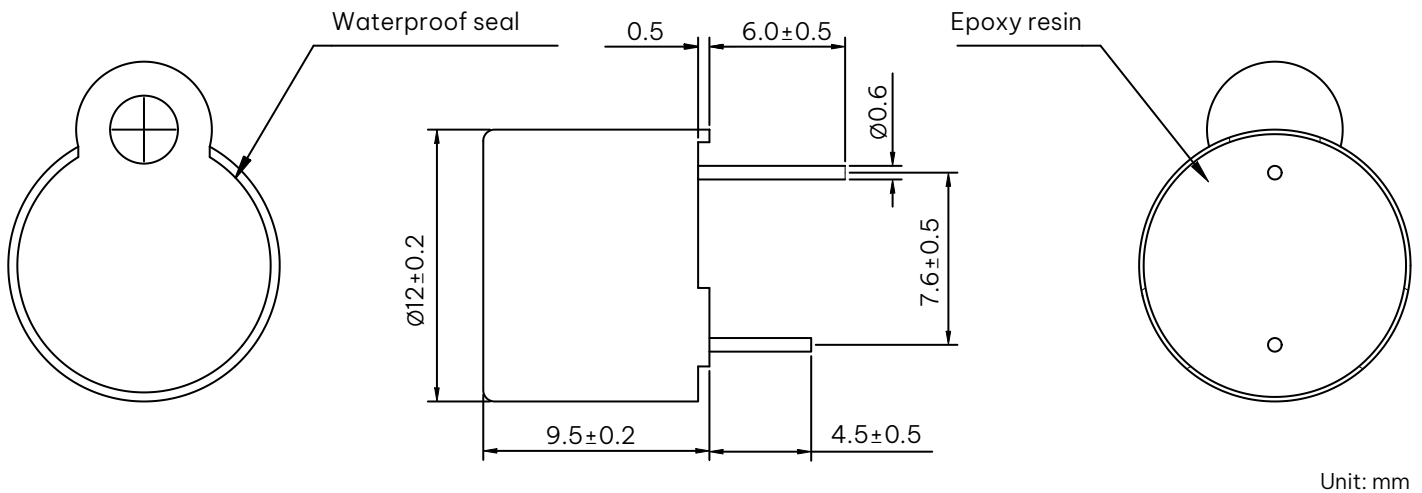


Part Number	Mounting Type	Width	Voltage	Frecuency (Hz)	Body Type	Color	Page
MI-TH12-0323-RKT	Through Hole	12mm	3V	2300 ± 300	Round	Black	4
MI-TH09-0523-RK	Through Hole	9.0mm	5V	2300 ± 300	Round	Black	5
MI-TH12-0523-RK	Through Hole	12mm	5V	2300 ± 300	Round	Black	6
MI-TH12-0323-RK	Through Hole	12mm	3V	2300 ± 400	Round	Black	7
MI-SMT12-0524-SGT	Surface Mount	12.6mm x 12.6mm	5V	2400 ± 300	Square	Gray	8
MI-SMT12-1224-SG	Surface Mount	12.6mm x 12.6mm	12V	2400 ± 300	Square	Gray	19
MI-SMT12-0524-SG	Surface Mount	12.7mm x 12.7mm	5V	2400 ± 400	Square	Gray	10
MI-SMT09-0327-SK	Surface Mount	9.6mm x 9.6mm	3V	2700 ± 300	Square	Black	11
MI-SMT09-1227-SK	Surface Mount	9.6mm x 9.6mm	12V	2700 ± 300	Square	Black	12
MI-SMT09-0527-SK	Surface Mount	9.6mm x 9.6mm	5V	2700 ± 300	Square	Black	13
MI-TH09-0328-RK	Through Hole	9.0mm	3V	2800 ± 300	Round	Black	14
MI-TH12-0531-RK	Through Hole	12mm	5V	3100 ± 300	Round	Black	15



Product Dimensions

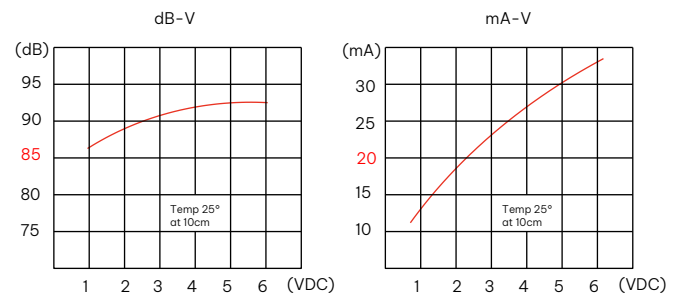
MI-TH12-0323-RKT



Electrical Characteristics	
Resonant Frequency (Hz)	2300 $\pm$ 300
Operating Voltage (Vdc)	2.0 ~ 5.0
Rated Voltage (Vdc)	3.0
Current Consumption (mA/max)	30 at Rated Voltage
Sound Pressure Level (dB/min)	85 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Condition by wave (°C)	260 $\pm$ 5°C / within 5sec
Condition by hand (°C)	350 $\pm$ 20°C / within 5sec

Material	
Housing	PBT plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	1.6

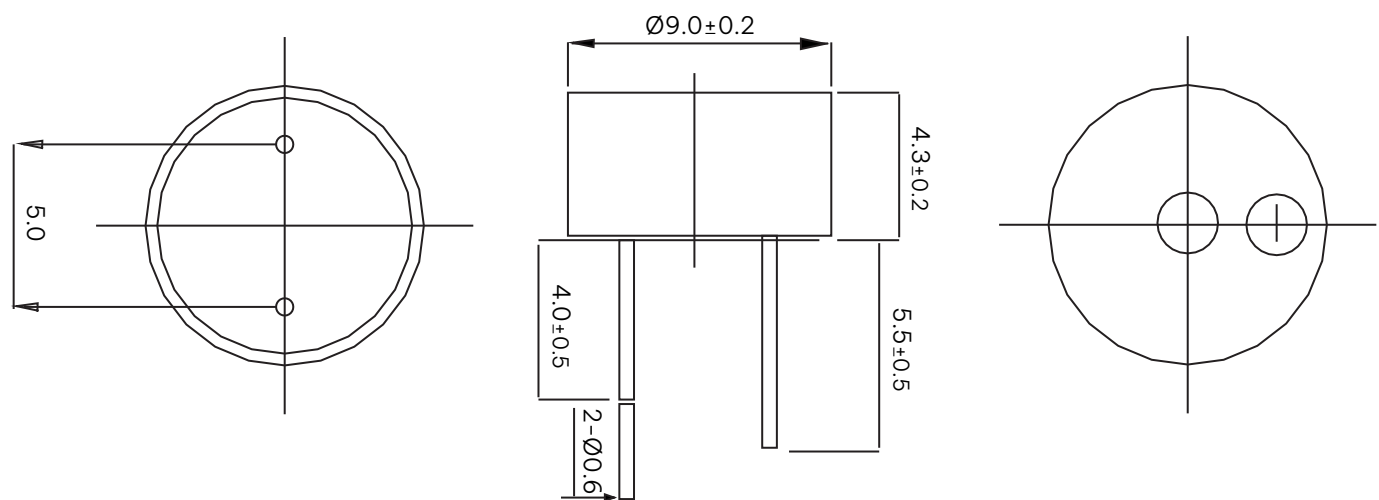
Voltage/Current/ Sound pressure





Product Dimensions

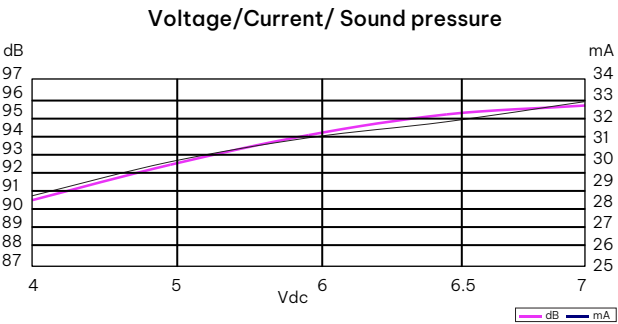
MI-TH09-0523-RK



Unit: mm

Electrical Characteristics	
Oscillation Frequency (Hz)	2300 ± 300
Operating Voltage (Vdc)	4.0 ~ 7.0
Rated V oltage (Vdc)	5.0
Current Consumption (mA/max)	30 at Rated Voltage
Sound Pressure Level (dB/min)	85 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Condition by wave (°C)	260±5°C / within 5sec
Condition by hand (°C)	350±20°C / within 5sec

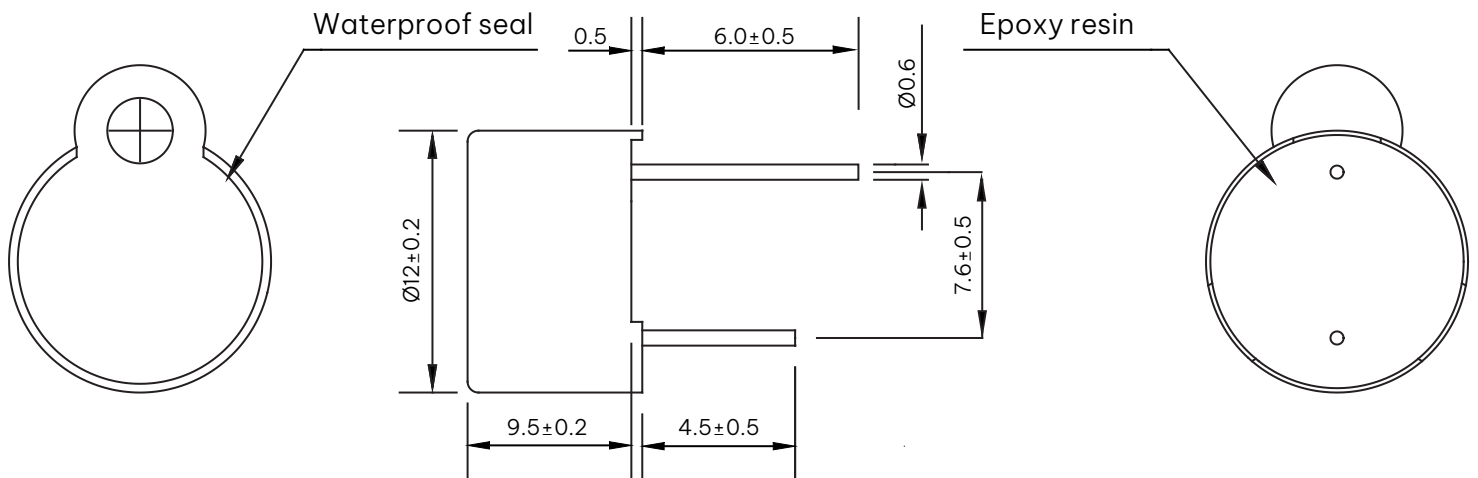
Material	
Housing	PPO plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	1.5





Product Dimensions

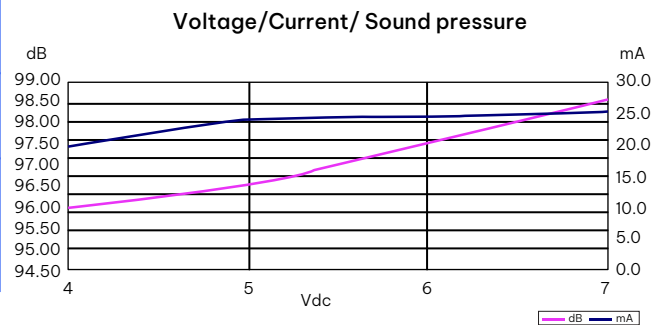
MI-TH12-0523-RK



Unit: mm

Electrical Characteristics	
Resonant Frequency (Hz)	2300 $\pm$ 300
Operating Voltage (Vdc)	4.0 ~ 7.0
Rated Voltage (Vdc)	5.0
Current Consumption (mA/max)	50 at Rated Voltage
Sound Pressure Level (dB/min)	90 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Condition by wave (°C)	260 $\pm$ 5°C / within 5sec
Condition by hand (°C)	350 $\pm$ 20°C / within 5sec

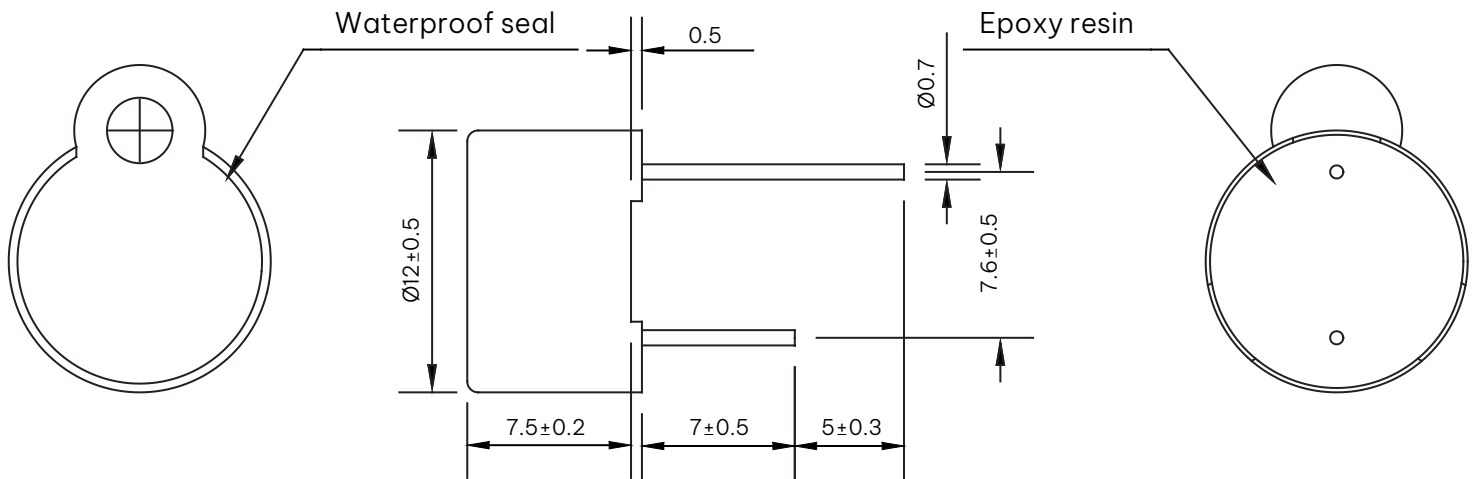
Material	
Housing	PBT plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	1.6





Product Dimensions

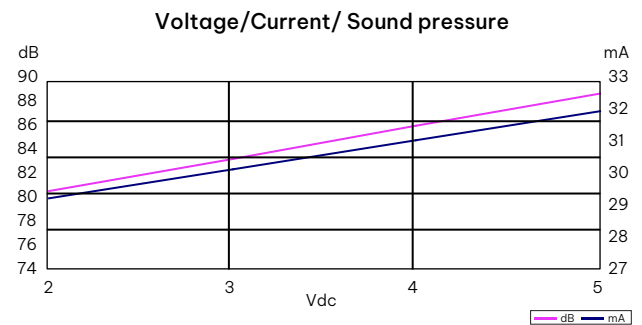
MI-TH12-0323-RK



Unit: mm

Electrical Characteristics	
Resonant Frequency (Hz)	2300 $\pm$ 400
Operating Voltage (Vdc)	2.0 ~ 5
Rated Voltage (Vdc)	3.0
Current Consumption (mA/max)	30 at Rated Voltage
Sound Pressure Level (dB/min)	85 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Condition by wave (°C)	260 $\pm$ 5°C / within 5sec
Condition by hand (°C)	350 $\pm$ 20°C / within 5sec

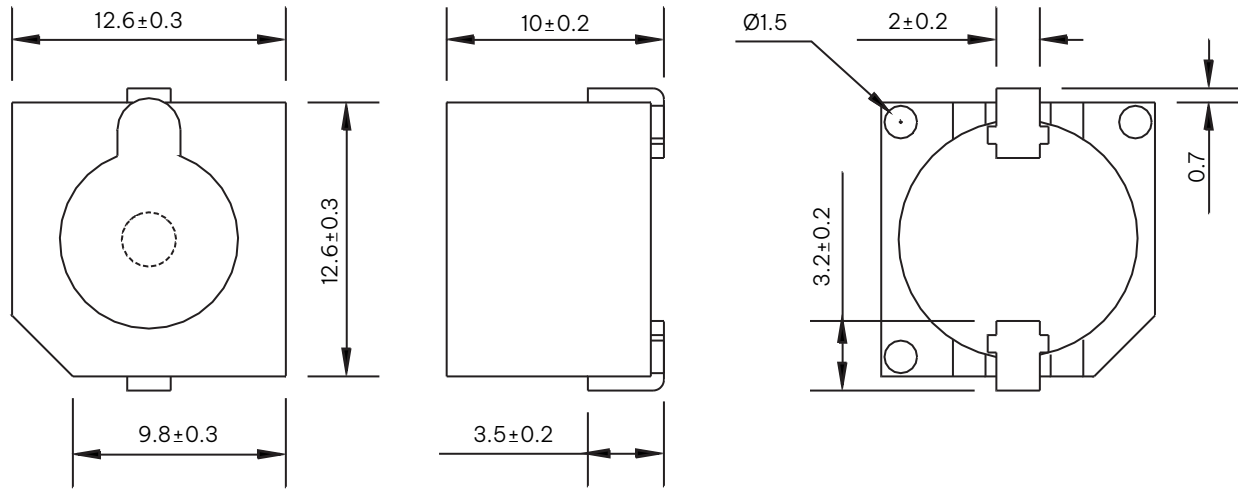
Material	
Housing	PPO plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	1.8





Product Dimensions

MI-SMT12-0524-SGT

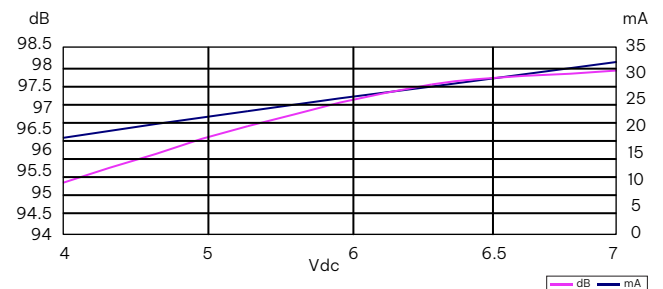


Unit: mm

Electrical Characteristics	
Resonant Frequency (Hz)	2400 ± 300
Operating Voltage (Vdc)	4.0 ~ 7.0
Rated Voltage (Vdc)	5.0
Current Consumption (mA/max)	30 at Rated Voltage
Sound Pressure Level (dB/min)	90 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Condition by wave (°C)	$250 \pm 5^\circ\text{C}$ / within 5sec
Condition by hand (°C)	$350 \pm 20^\circ\text{C}$ / within 5sec

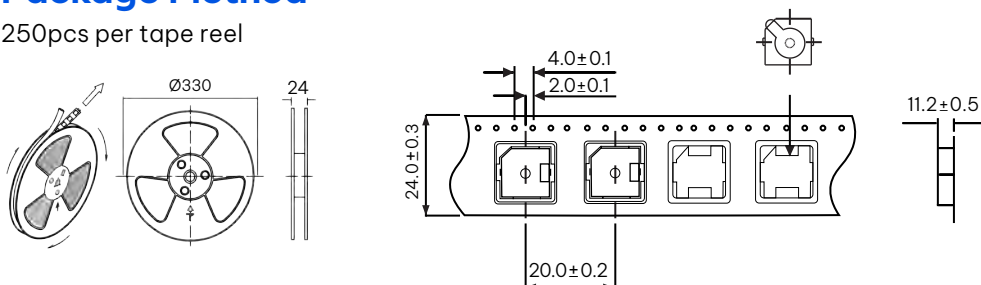
Material	
Housing	PPS plastic resin (Color : Gray)
Leading Pin	SMD
Weight (Gram)	2.8

Voltage/Current/ Sound pressure



Package Method

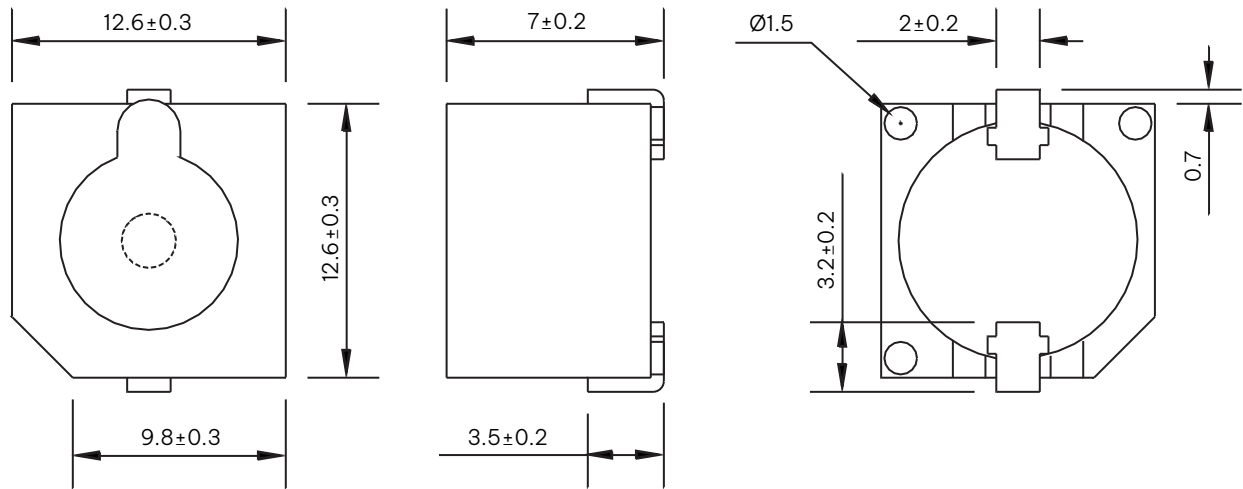
250pcs per tape reel





Product Dimensions

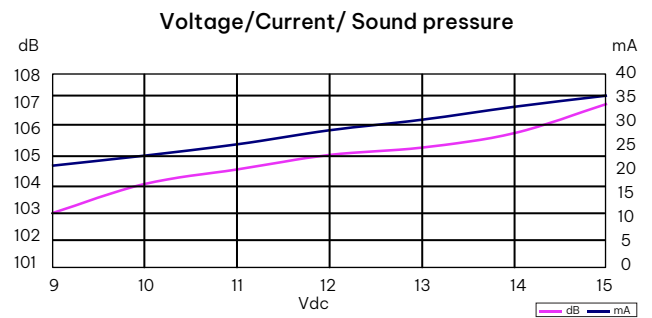
MI-SMT12-1224-SG



Unit: mm

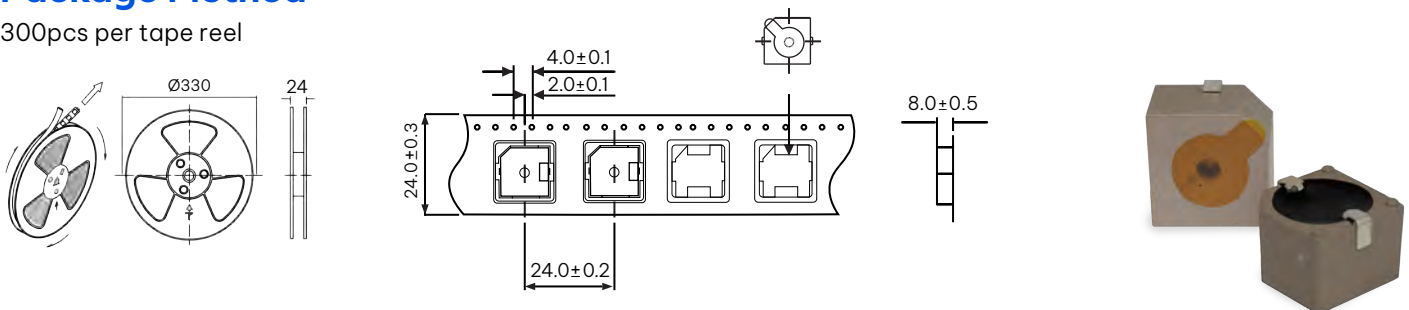
Electrical Characteristics	
Oscillation Frequency (Hz)	2400 ± 300
Operating Voltage (Vdc)	9.0 ~ 15
Rated Voltage (Vdc)	12
Current Consumption (mA/max)	50 at Rated Voltage
Sound Pressure Level (dB/min)	90 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Condition by wave (°C)	$245 \pm 5^\circ\text{C}$ / 1 min
Condition by hand (°C)	$350 \pm 20^\circ\text{C}$ / within 5sec

Material	
Housing	PPS plastic resin (Color : Gray)
Leading Pin	SMD
Weight (Gram)	2.8



Package Method

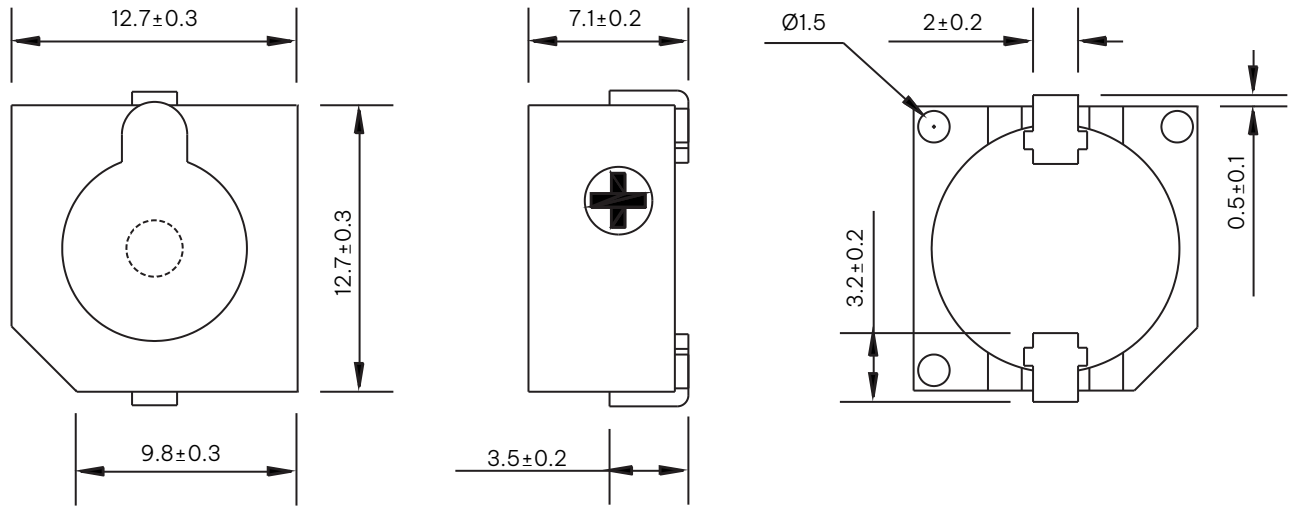
300pcs per tape reel





Product Dimensions

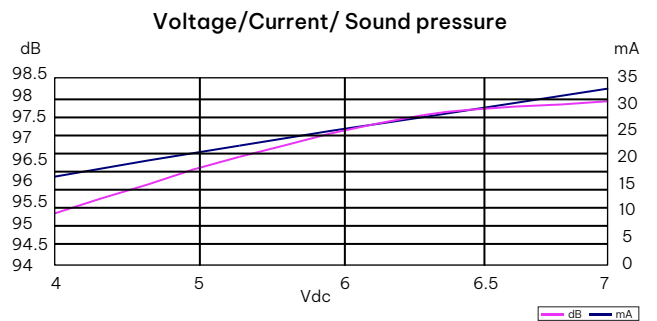
MI-SMT12-0524-SG



Unit: mm

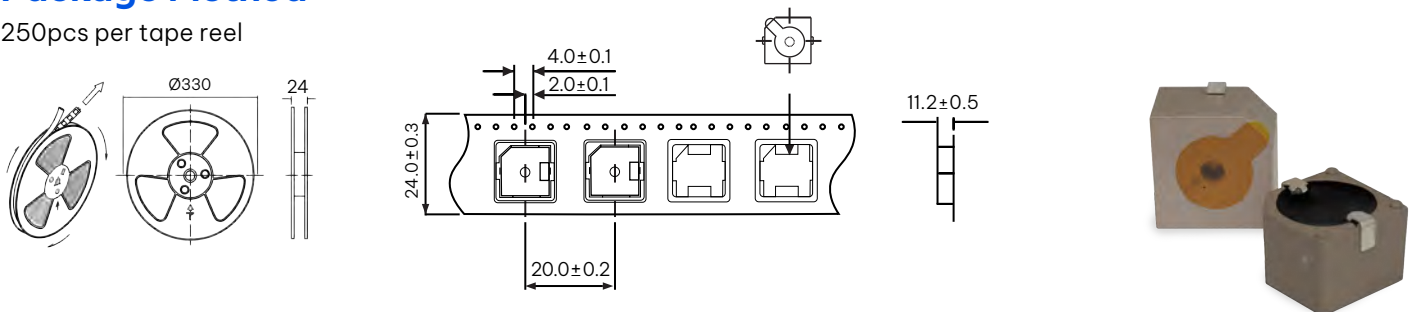
Electrical Characteristics	
Oscillation Frequency (Hz)	2400 ± 400
Operating Voltage (Vdc)	4.0 ~ 7.0
Rated Voltage (Vdc)	5.0
Current Consumption (mA/max)	30 at Rated Voltage
Sound Pressure Level (dB/min)	88 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Condition by wave (°C)	$250 \pm 5^\circ\text{C}$ / within 10sec
Condition by hand (°C)	$350 \pm 20^\circ\text{C}$ / within 5sec

Material	
Housing	PPS plastic resin (Color : Gray)
Leading Pin	SMD
Weight (Gram)	2.0



Package Method

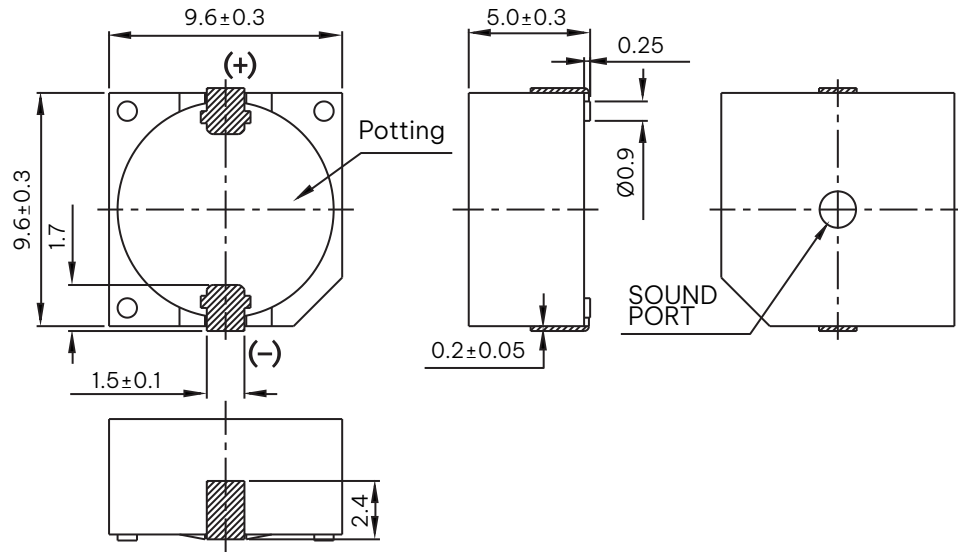
250pcs per tape reel





Product Dimensions

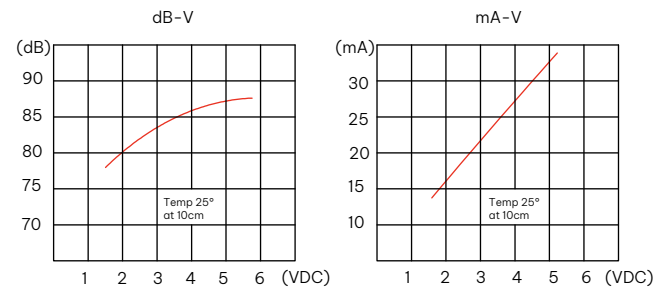
MI-SMT09-0327-SK



Unit: mm

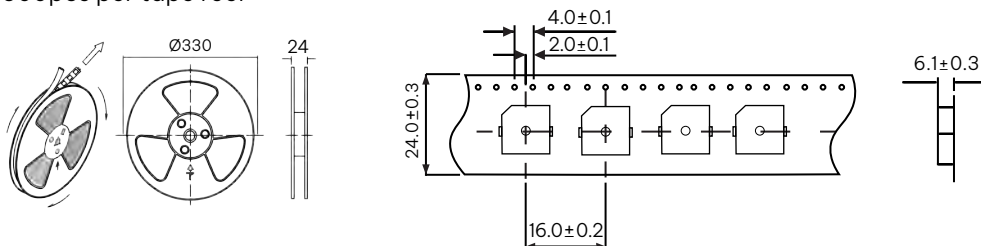
Electrical Characteristics	
Oscillation Frequency (Hz)	2700 ± 300
Operating Voltage (Vdc)	2 ~ 5
Rated Voltage (Vdc)	3
Current Consumption (mA/max)	30 at Rated Voltage
Sound Pressure Level (dB/min)	80 at 10cm at Rated Voltage
Tone/Pulse Rate	Single
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +85
Condition by wave (°C)	$255 \pm 5^\circ\text{C}$ / within 5sec
Condition by hand (°C)	$350 \pm 20^\circ\text{C}$ / within 5sec

Material	
Housing	PPS plastic resin (Color : Black)
Leading Pin	SMD
Weight (Gram)	1.5



Package Method

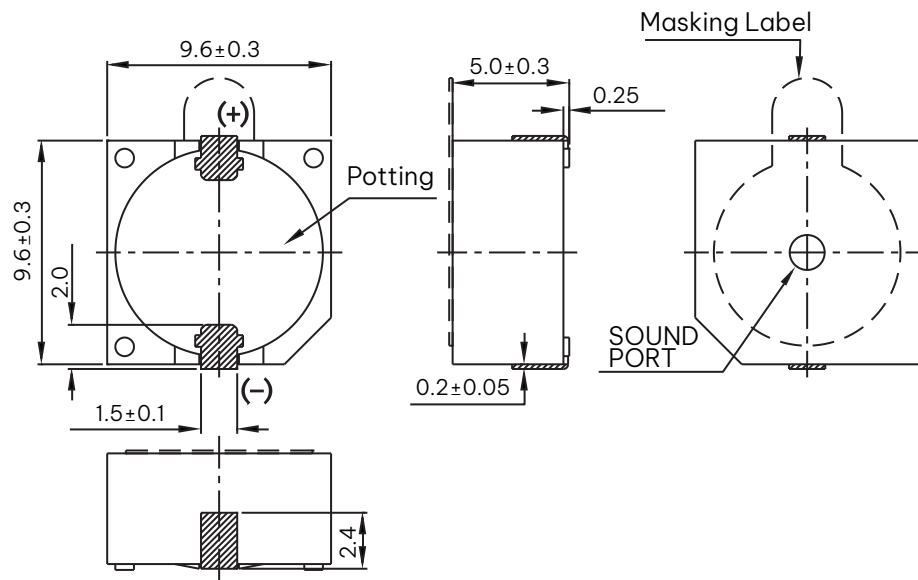
600pcs per tape reel





Product Dimensions

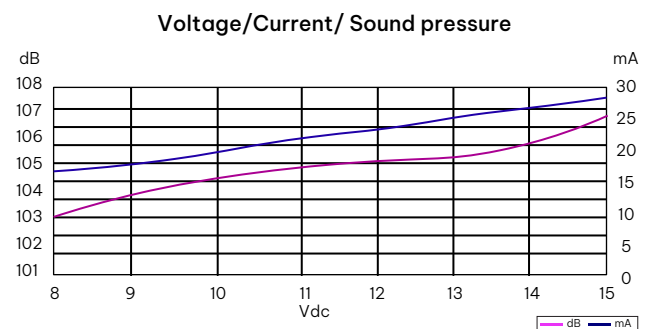
MI-SMT09-1227-SK



Unit: mm

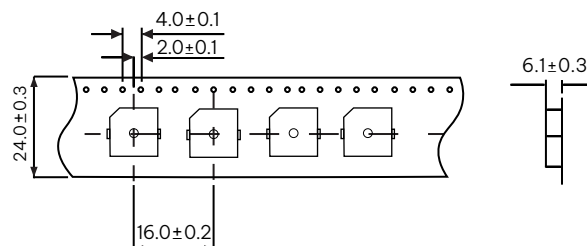
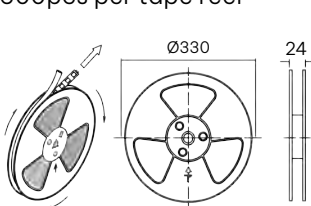
Electrical Characteristics	
Oscillation Frequency (Hz)	2700 ± 300
Operating Voltage (Vdc)	8 ~ 15
Rated Voltage (Vdc)	12
Current Consumption (mA/max)	30 at Rated Voltage
Sound Pressure Level (dB/min)	85 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +85
Condition by wave (°C)	$260 \pm 5^\circ\text{C}$ / within 5sec
Condition by hand (°C)	$350 \pm 20^\circ\text{C}$ / within 3sec

Material	
Housing	PPS plastic resin (Color : Black)
Leading Pin	Plated Brass (Au)
Weight (Gram)	1.5



Package Method

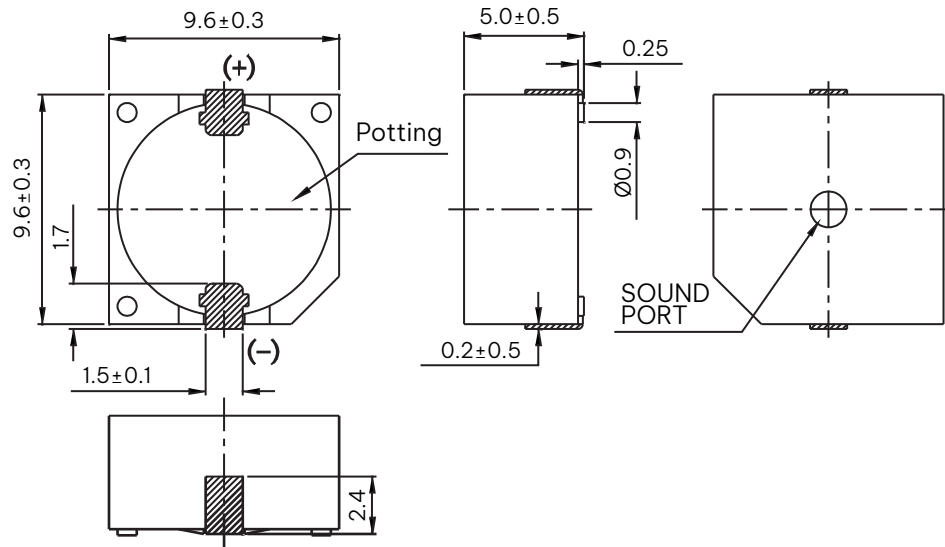
600pcs per tape reel





Product Dimensions

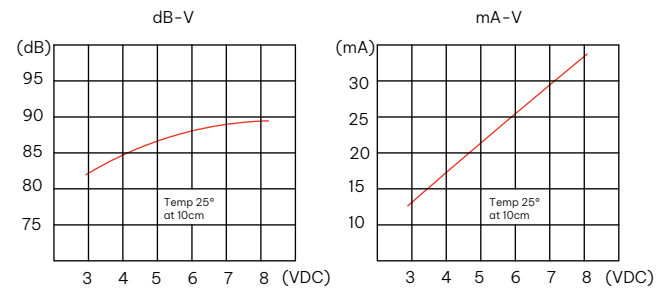
MI-SMT09-0527-SK



Unit: mm

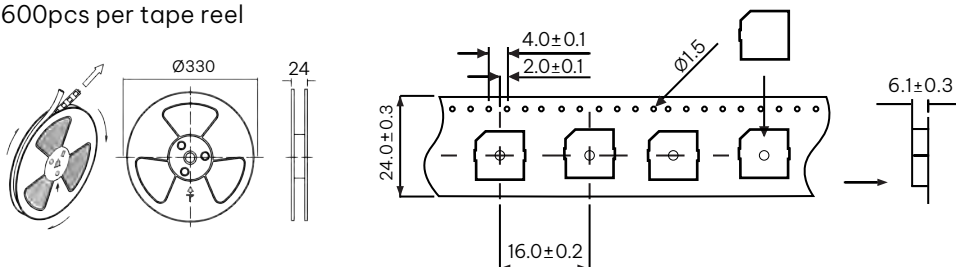
Electrical Characteristics	
Oscillation Frequency (Hz)	2700 ± 300
Operating Voltage (Vdc)	4.0 ~ 7.0
Rated Voltage (Vdc)	5.0
Current Consumption (mA/max)	30 at Rated Voltage
Sound Pressure Level (dB/min)	80 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +85

Material	
Housing	PPS plastic resin (Color : Black)
Leading Pin	SMD
Weight (Gram)	1.5



Package Method

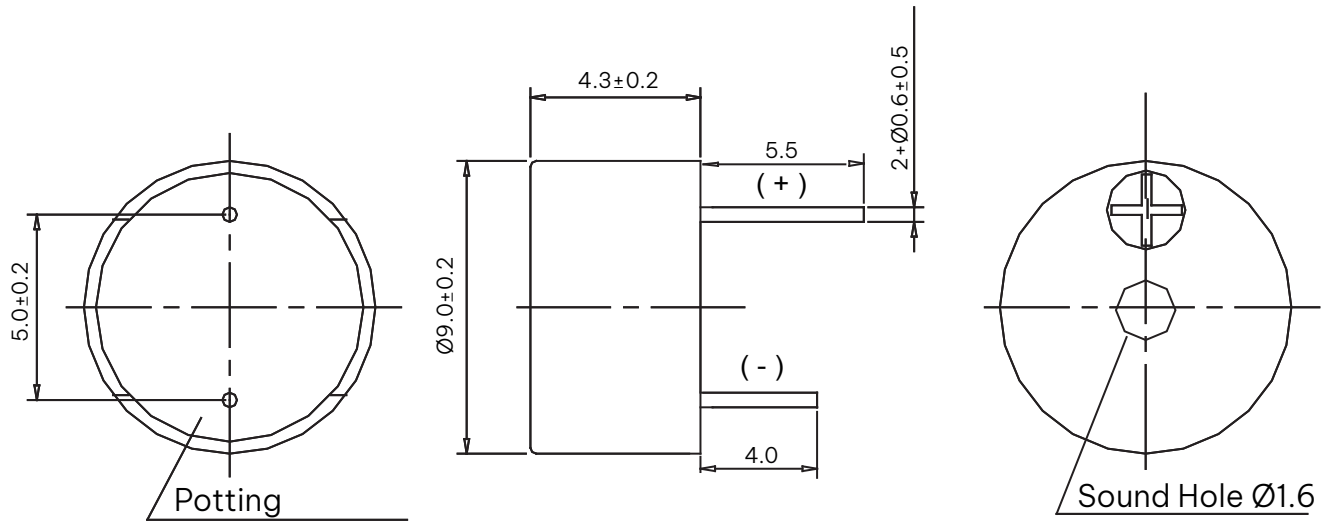
600pcs per tape reel





Product Dimensions

MI-TH09-0328-RK

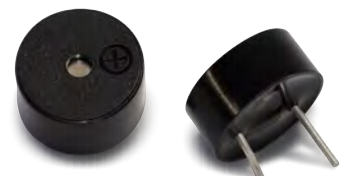
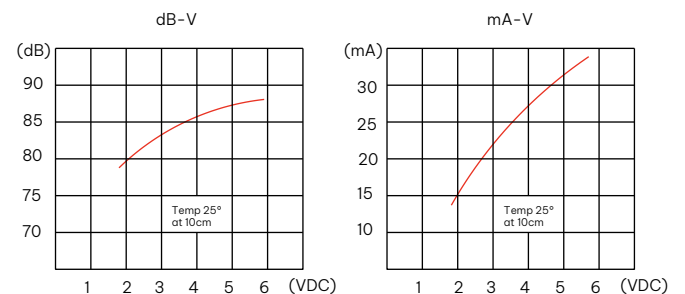


Unit: mm

Tolerance: ± 0.5 mm

Electrical Characteristics	
Oscillation Frequency (Hz)	2800 ± 300
Operating Voltage (Vdc)	2 ~ 5
Rated Voltage (Vdc)	3
Current Consumption (mA/max)	30 at Rated Voltage
Sound Pressure Level (dB/min)	80 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-40 ~ +80

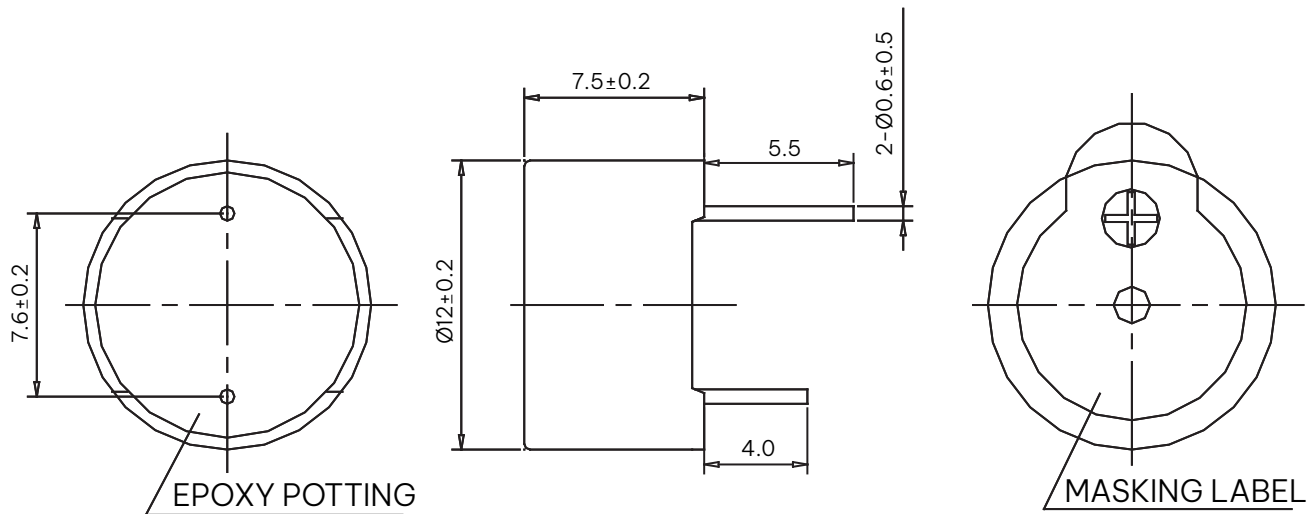
Material	
Housing	PBT plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	2.0





Product Dimensions

MI-TH12-0531-RK



WAVE SOLDER AND WASH ALLOWED

Unit: mm

Electrical Characteristics	
Oscillation Frequency (Hz)	3100 ± 300
Operating Voltage (Vdc)	3.0 ~ 7.0
Rated V oltague (Vdc)	5.0
Current Consumption (mA/max)	30 at Rated Voltage
Sound Pressure Level (dB/min)	85 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Condition by wave (°C)	260 ± 5°C / within 5sec
Condition by hand (°C)	350 ± 20°C / within 5sec

Material	
Housing	NORYL (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	2.0



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