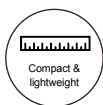




PI SERIES PIEZO INDICATORS

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



Applications

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

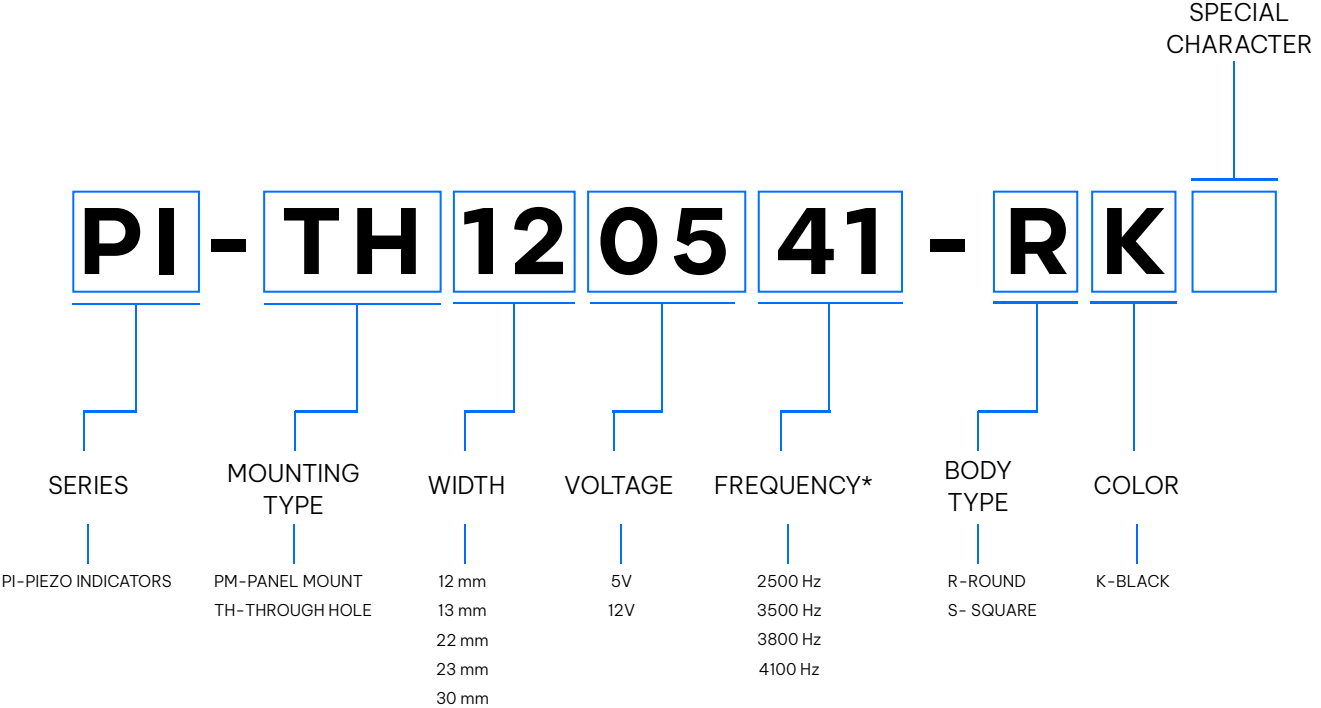
Key Features

- Internal driving circuitry for seamless integration into existing designs
- Plug & play design
- Rich single tone & crisp sound quality
- Good low-frequency response
- Available sizes 12 to 30mm, round, square & flange type
- SMD or Through-hole mounting options
- ROHS compliant



Ordering Data

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.

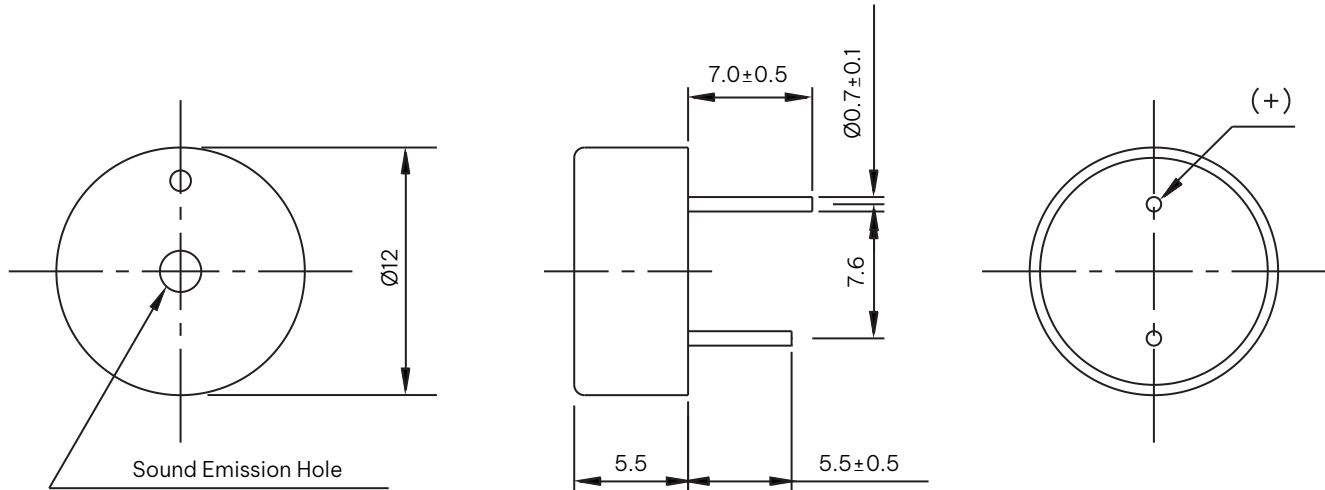


Part Number	Mounting Type	Width	Voltage	Frecuency (Hz)	Body Type	Color	Page
PI-TH12-0541-RK	Through Hole	12mm	5V	4100 ± 200	Round	Black	4
PI-TH13-1241-RK	Through Hole	13.8mm	12V	4100 ± 500	Round	Black	5
PI-TH22-1235-RK	Through Hole	22.8mm	12V	3500 ± 300	Round	Black	6
PI-TH23-1238-RK	Through Hole	23mm	12V	3800 ± 500	Round	Black	7
PI-PM30-1225-RK	Panel Mount, Flange	30mm	12V	2500 ± 500	Round	Black	8



Product Dimensions

PI-TH12-0541-RK



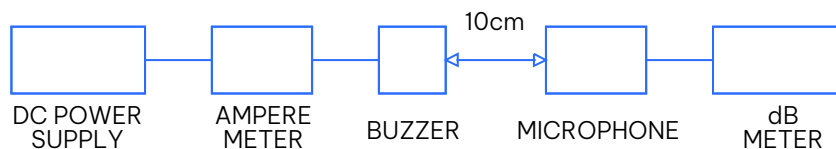
Unit: mm

Electrical Characteristics	
Oscillation Frequency (Hz)	4100±200
Operating Voltage (VDC)	3 ~ 5
Rated Voltage (VDC)	5.0
Current Consumption (mA/max)	5 at Rated Voltage
Sound Pressure Level (dB/min)	80 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +100
Storage Temperature (°C)	-30 ~ +110
Condition by wave (°C)	260±5°C / within 5sec
Condition by hand (°C)	350±20°C / within 5sec

Material	
Housing	PBT plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	0.8

Testing Method

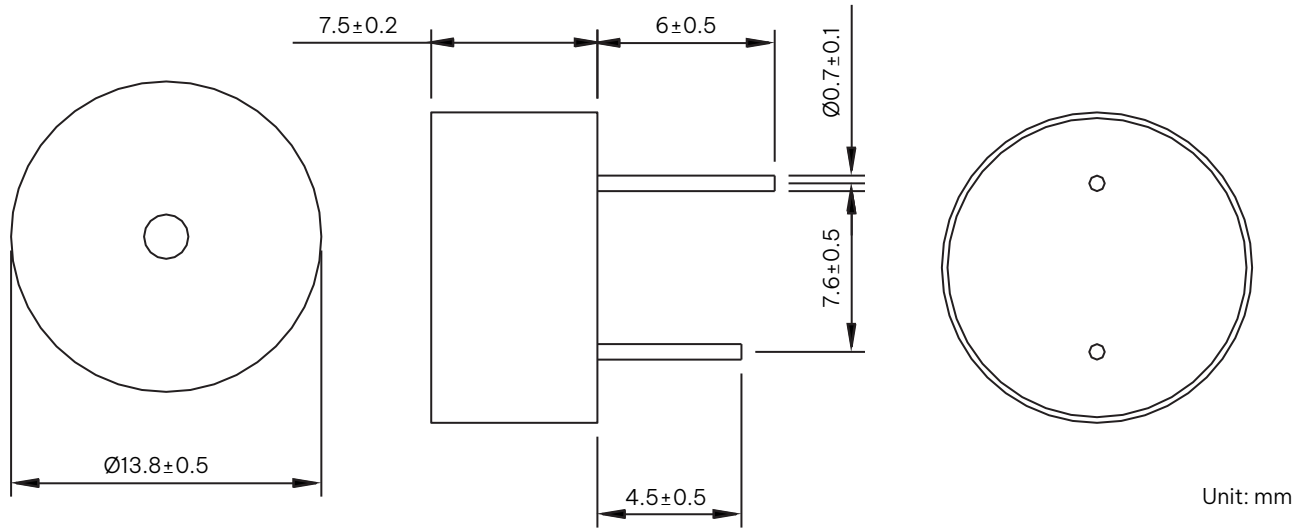
- **Standard Measurement conditions:** Temperature:25± 2°C Humidity:45-60%.
- **Acoustic Characteristics:** The frequency, power usage, and sound output are evaluated using the measurement equipment depicted below.





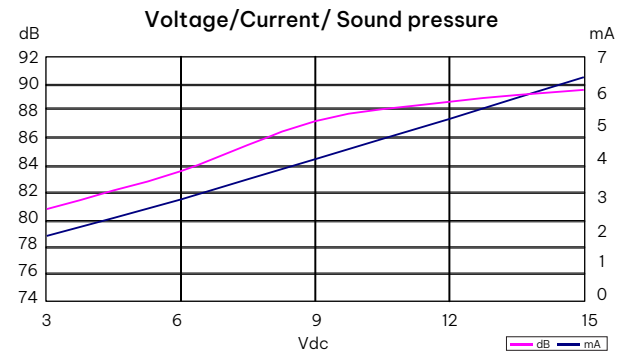
Product Dimensions

PI-TH13-1241-RK



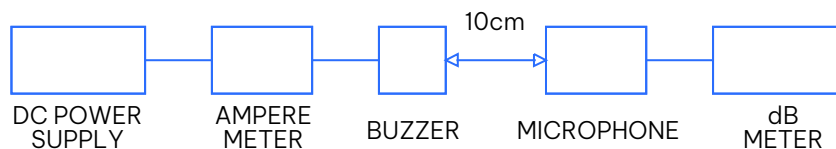
Electrical Characteristics	
Oscillation Frequency (Hz)	4100±500
Operating Voltage (VDC)	3 ~ 15
Rated Voltage (VDC)	12
Current Consumption (mA/max)	20 at Rated Voltage
Sound Pressure Level (dB/min)	83 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Condition by wave (°C)	260±5°C / within 5sec
Condition by hand (°C)	350±20°C / within 5sec

Material	
Housing	PBT (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	1.0



Testing Method

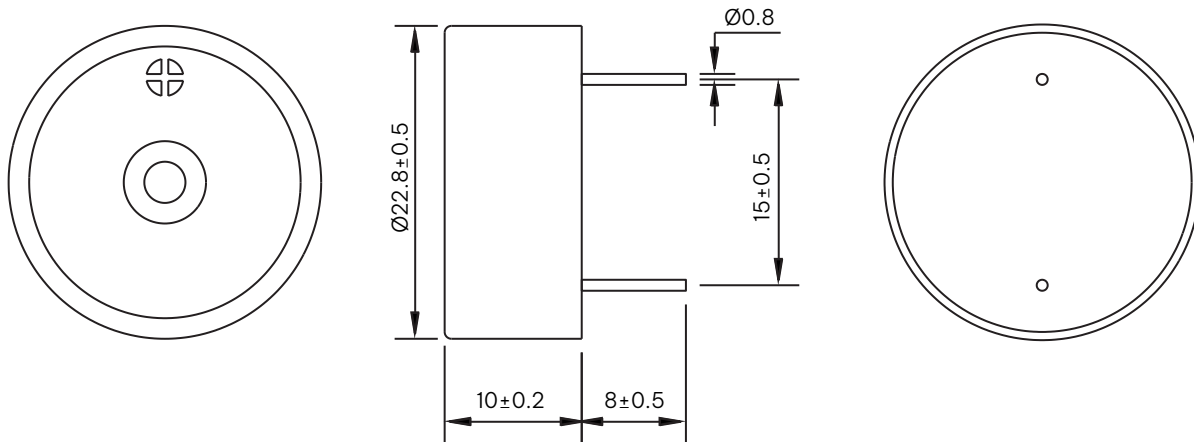
- Standard Measurement conditions:** Temperature: 25± 2°C Humidity: 45-60%.
- Acoustic Characteristics:** The frequency, power usage, and sound output are evaluated using the measurement equipment depicted below.





Product Dimensions

PI-TH22-1235-RK



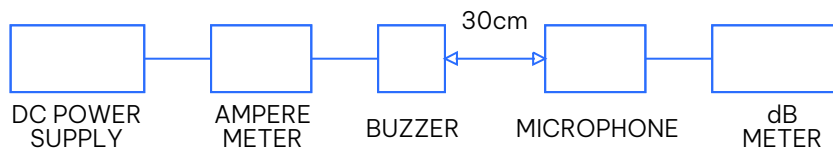
Unit: mm

Electrical Characteristics	
Oscillation Frequency (Hz)	3500 $\pm$ 300
Operating Voltage (VDC)	3 ~ 16
Rated Voltage (VDC)	12
Current Consumption (mA/max)	30 at Rated Voltage
Sound Pressure Level (dB/min)	90 at 30cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +100
Storage Temperature (°C)	-30 ~ +110
Condition by wave (°C)	260 $\pm$ 5°C / within 5sec
Condition by hand (°C)	350 $\pm$ 20°C / within 5sec

Material	
Housing	PBT (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	2.6

Testing Method

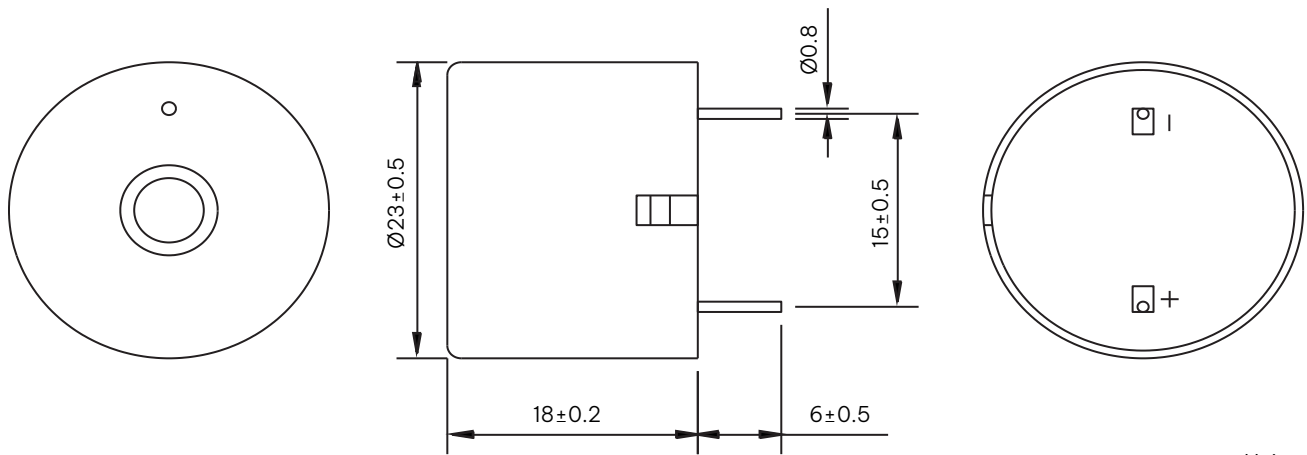
- Standard Measurement conditions:** Temperature:25 $\pm$ 2°C Humidity:45-60%.
- Acoustic Characteristics:** The frequency, power usage, and sound output are evaluated using the measurement equipment depicted below.





Product Dimensions

PI-TH23-1238-RK



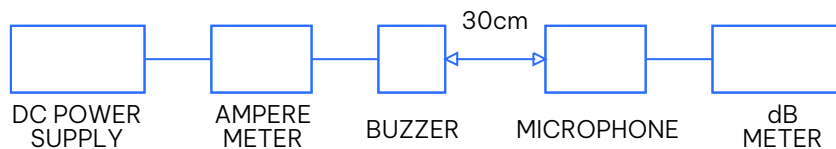
Unit: mm

Electrical Characteristics	
Oscillation Frequency (Hz)	3800 ± 500
Operating Voltage (VDC)	3 ~ 24
Rated Voltage (VDC)	12
Current Consumption (mA/max)	15 at Rated Voltage
Sound Pressure Level (dB/min)	95 at 30cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Condition by hand (°C)	$350 \pm 20^{\circ}\text{C}$ / within 5sec

Material	
Housing	ABS Plastic Resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	4.8

Testing Method

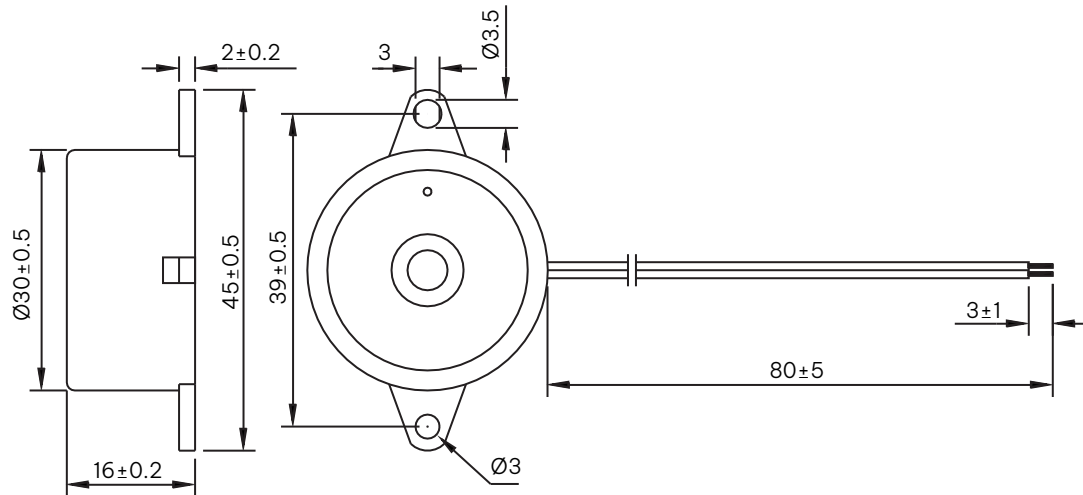
- Standard Measurement conditions:** Temperature: $25 \pm 2^{\circ}\text{C}$ Humidity: 45-60%.
- Acoustic Characteristics:** The frequency, power usage, and sound output are evaluated using the measurement equipment depicted below.





Product Dimensions

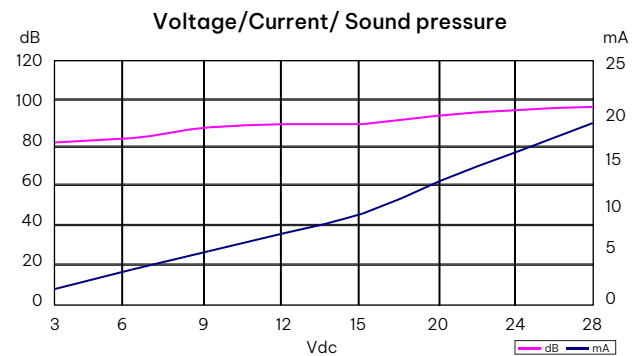
PI-PM30-1225-RK



Unit: mm

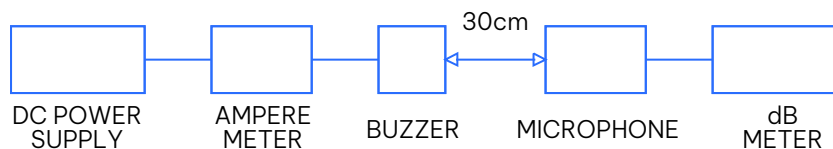
Electrical Characteristics	
Oscillation Frequency (Hz)	2500±500
Operating Voltage (VDC)	3 ~ 28
Rated Voltage (VDC)	12
Current Consumption (mA/max)	8 at Rated Voltage
Sound Pressure Level (dB/min)	90 at 30cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80

Material	
Housing	ABS Plastic Resin (Color : Black)
Leading Wire	28 AWG
Weight (Gram)	7.0



Testing Method

- Standard Measurement conditions:** Temperature: 25± 2°C Humidity: 45-60%.
- Acoustic Characteristics:** The frequency, power usage, and sound output are evaluated using the measurement equipment depicted below.



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