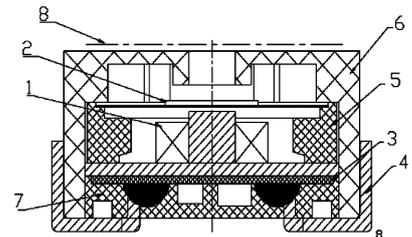
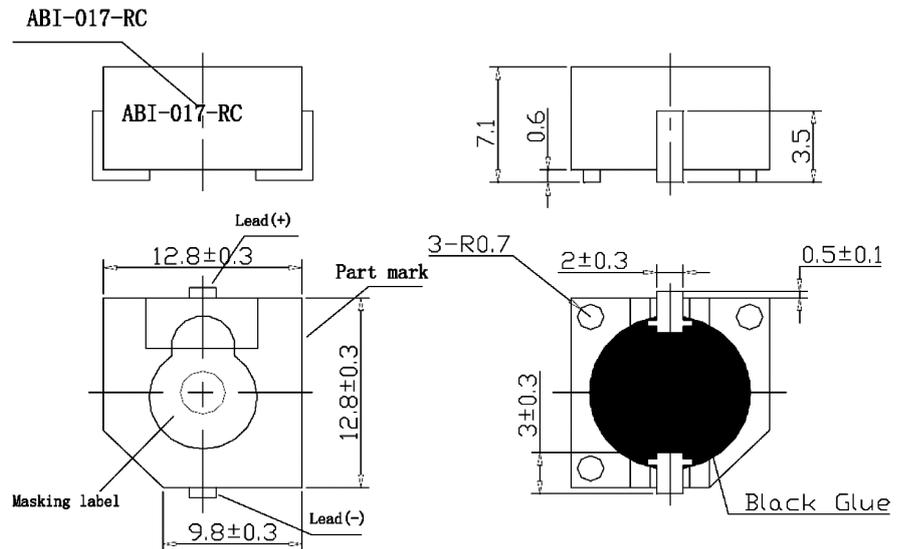


DC Devices (with internal drive circuits)

Surface Mount Type



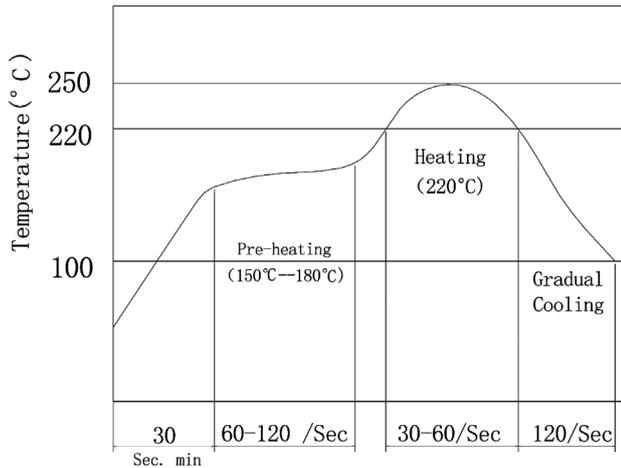
1. Coil part Copper & Iron.
2. Diaphragme Iron.
3. PCB Epoxy
4. Pin Brass
5. Magnetism High temp plastic magnetism
6. Housing PPS
7. Potting Black glue
8. Masking label Paper

Specifications

Part Number	ABI-017-RC	ABI-017-RC-T&R	ABI-018-RC
Rated Voltage	5V DC		12V DC
Operating Voltage	4 ~ 7V DC		8 ~ 15V DC
Rated Current	≤30mA		≤30mA
Sound Output level @ 20cm	≥88dB		≥85dB
Resonant Frequency	2400Hz ±400Hz		
Tone	Continuous		
Housing Material	PPS		
Operating Temperature	-20°C to +70°C		
Storage Temperature	-30°C to +80°C		
Weight	2g		

Dimensions : Millimetres
Tolerance: ±0.5mm

Surface Mount Indicator - Reflow Solder Curve

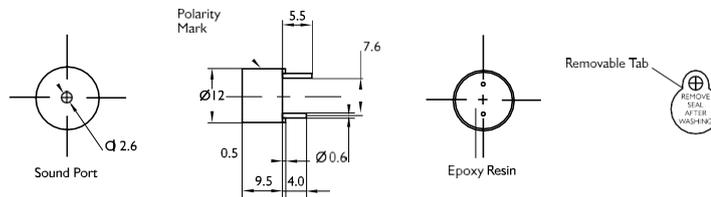


Environmental Test

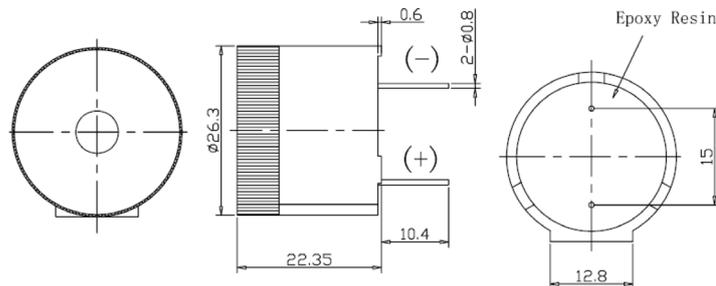
Item	Specifications
Storage in High Temperature	Storage in +85°C ±2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
Storage in Low Temperature	Storage in -40°C ±2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
Storage in Humidity	Storage in +40°C ±2°C 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
Thermal cycle test.	<p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
Vibration test	<p>Amplitude: 1.5mm Time : 1min/axis 55 Hz</p> <p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).</p>
Drop test	Free drop a unit from the height 100cm to the surface of 10mm thick board, three directions(X,Y,Z).
Solderability test	Soldering temperature: 260±5°C Heat applying time: 3±0.5sec.
Pass Criterion: After these tests , the change of S.P.L shall be within ±5dB.	

Through Hole Type

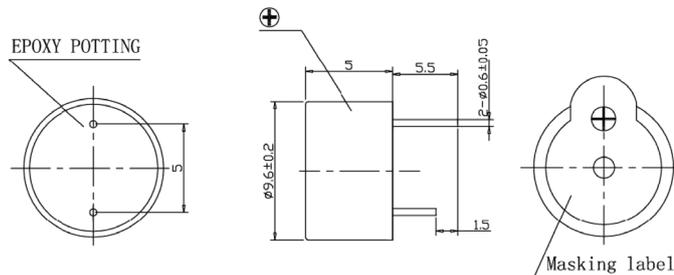
ABI-009-RC & ABI-010-RC



ABI-052-RC



ABI-057-RC

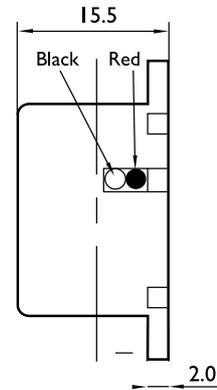
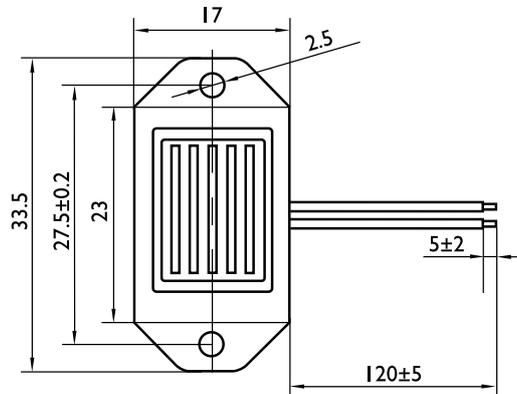


Dimensions : Millimetres
Tolerance: ±0.5mm

Specifications

Part Number	ABI-009-RC	ABI-010-RC	ABI-052-RC	ABI-057-RC
Rated Voltage	6V DC	12V DC	12V DC	5V DC
Operating Voltage	4 ~ 8V DC	8 ~ 16V DC	5 ~ 18V DC	3 ~ 7V DC
Rated Current	≤ 30mA	≤ 30mA	≤ 50mA	≤ 25mA
Sound Output level @ 10cm	≥ 85dB		≥ 100dB	≥ 80dB
Resonant Frequency	2300Hz ±300Hz		2800Hz ±500Hz	2730Hz ±300Hz
Tone	Continuous			
Housing Material	Black Noryl		Grey Noryl	Black PBT
Operating Temperature	-25°C to +80°C	-20°C to +70°C	-30°C to +70°C	-20°C to +80°C
Storage Temperature	-30°C to +85°C	-30°C to +80°C	-40°C to +85°C	-30°C to +85°C
Pin Pitch	7.6mm	7.6mm	15mm	5mm
Weight	2g	2g	12g	1g

Flange Mount - Wire Lead Type



Dimensions : Millimetres
Tolerance: ±0.5mm

Part Number	ABI-041-RC	ABI-028-12-RC
Rated Voltage	6V DC	12V DC
Operating Voltage	4 ~ 8VDC	9 ~ 15VDC
Rated Current	≤ 25mA	
Sound Output level @20cm	≥ 75dB	
Resonant Frequency	400Hz ±100Hz	
Tone	Continuous	
Housing Material	Black ABS	
Operating Temperature	-10°C to +60°C	
Storage Temperature	-30°C to +70°C	
Lead Wire	UL1095 AWG26	
Lead Length	120mm	
Weight	10g	

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