

Description: magnetic buzzer

Date: 9/21/2006

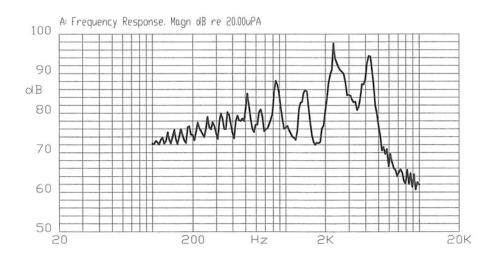
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Specifications

Rated voltage	5.0 Vo-p	Vo-p ★ ☐ ☐	
Operating voltage	3.0 ~ 7.0 Vo-p	OV	
Mean current	60 mA max.	Applying rated voltage, 2400 Hz square wave, ½ duty	
Coil resistance	47.0 ±7.0 Ω		
Sound output	Min. 88 (Typical 92) dBA	Distance at 10cm (A-weight free air). Applying rated voltage of 2400 Hz, square wave, ½ duty.	
Rated frequency	2,400 Hz	•	
Operating tempurature	-30 ~ +70° C		
Storage tempurature	-40 ~ +85° C		
Dimensions	ø12.8 x W12.8 x H10 mm	See attached drawing	
Weight	2.0 g		
Material	PPS (S-206)		
Terminal	SMD type (Sn Plating)	See attached drawing	
RoHS	yes		

Frequency Response Curve



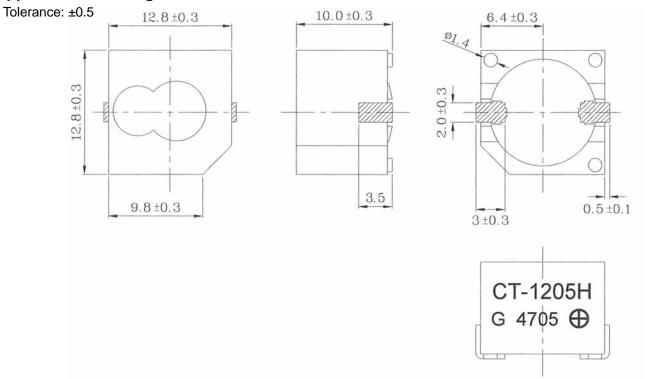
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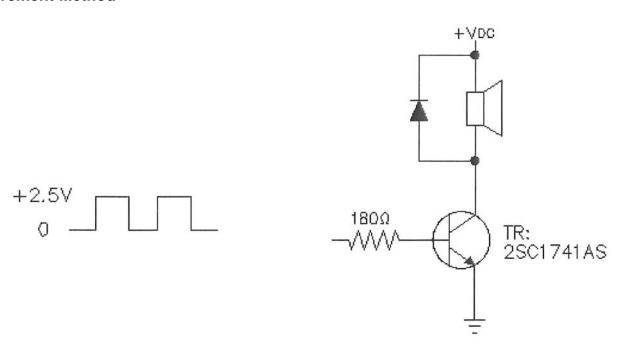
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Appearance Drawing



Measurement Method





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Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability	Lead terminals are immersed in solder bath	95% surface of lead pads must
	of +270 ±5°C for 3 ±1 seconds.	be covered with fresh solder.
Soldering Heat Resistance	The product follows the reflow temperature	No in interference in operation.
	curve to test its reflow thermo stability.	
Terminal Mechanical Strength	Lead pads shall be soldered onto the pc	No damage or cutting off.
	board and the force of 9.8 N (1.0 kg) shall	
	be applied behind the part for 10 seconds.	
Vibration	The buzzer will be measured after applying	
	a vibration amplitude of 1.5 mm with 10 to	After the test, the part shall meet
	55 Hz band of vibration frequency to each of	specifications without any
	the 3 perpendicular directions for 2 hours.	damage to the appearance and
Drop Test	The part is to be dropped from a height of	the SPL should be within ±10
	75 cm onto a 40 mm thick wooden board 3	dBA of the initial SPL.
	times in 3 axis (X, Y, Z) for a total of 9 drops.	

Environment Test

Item	Test Condition	Evaluation Standard
High temp. test	The part will be subjected to +85°C for 96 hours.	
Low temp. test	The part will be subjected to -40°C for 96 hours	After the test, the part shall meet specifications without any damage to the appearance or performance. After 4 hours at
Thermal shock	The part will be subjected to 10 cycles. One cycle will consist of: +85°C -40°C 30 min. 60 min.	
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One cycle will last for 24 hours and consist of: +85°C a,b:90~98%RH c:80~98%RH c:80~98%RH	25°C, the SPL should be within ±10 dBA of the initial SPL.



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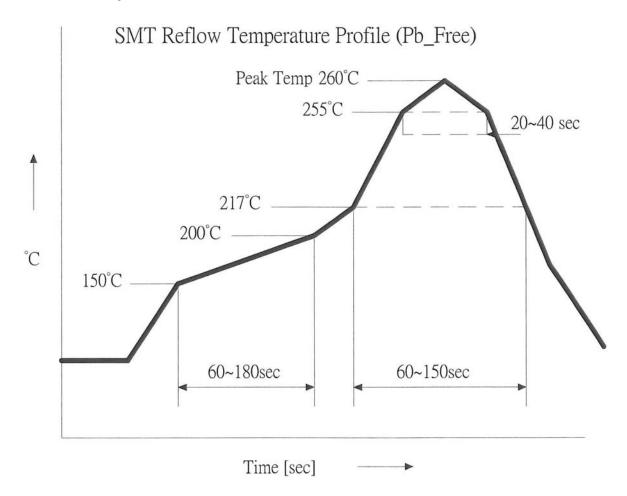
Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Operating (Life Test)	Continuous life test:	
	The part will be subjected to 72 hours at +55°C	After the test, the part shall meet
	with 5 V, 2400 Hz applied.	specifications without any
	••	damage to the appearance. After
	2. Intermittent life test:	4 hours at +25°C, the SPL
	A duty cycle of 1 minute on, 1 minute off, a	should be within ±10 dBA of the
	minimum of 10,000 times at room temp	initial SPL.
	(+25±10°C) with 5 V, 2400 Hz applied.	

Test Conditions

Standard Test Condition	a) Tempurature: +5 ~ +35°C	b) Humidity: 45 - 85%	c) Pressure: 860 - 1060 mbar
Judgement Test Condition	a) Tempurature: +25±2°C	b) Humidity: 60 - 70%	c) Pressure: 860 - 1060 mbar

Recommended Temperature Profile for Reflow Oven

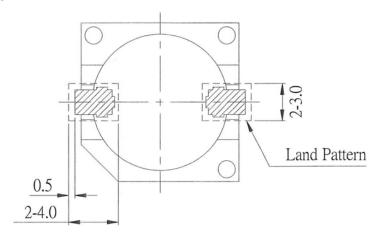


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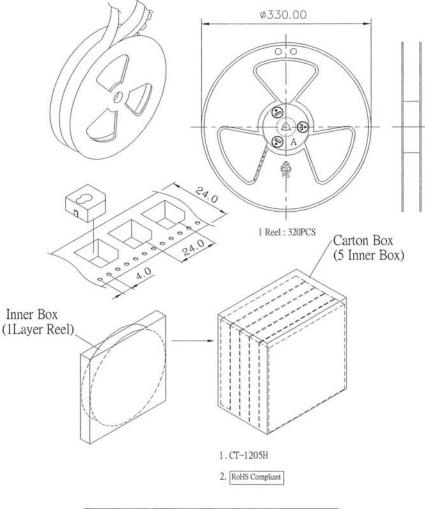
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Recommended Land Pattern



Packaging



Inner Box	340mmx340mmx40mm	1x320PCS=320PCS
Carton Box	350mmx175mmx355mm	5x320PCS=1600PCS