

Description: piezo audio transducer

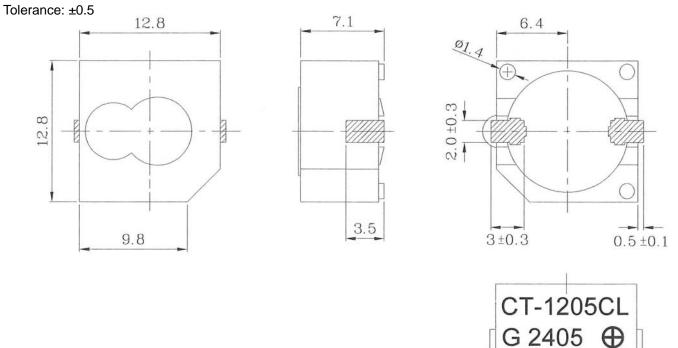
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### **Specifications**

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Rated voltage	5.0 V dc
Operating voltage	4.0 ~ 7.0 V dc
Mean curren	30 mA max.
Sound output	88 db min. (92 typical) at 10 cm / 5 V dc
Resonant frequency	2400 ±400 Hz
Operating temperature	-30 ~ +70° C
Storage temperature	-40 ~ +85° C
Dimensions	L12.8 x W12.8 x H7.1 mm
Weight	2.0 g
Material	PPS
Terminal	SMD type (Sn Plating)
RoHS	yes

# **Appearance Drawing**

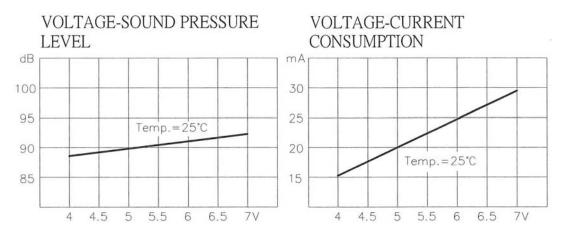




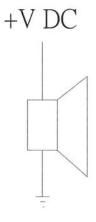
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#### Voltage: Sound Pressure Level / Voltage: Current Consumption



**Measurement Method** 





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#### **Mechanical Characteristics**

ltem	Test Condition	Evaluation Standard
Solderability	Lead terminals are immersed in solder bath	95% of the surface of the lead
·	of 270 $\pm$ 5°C for 3 $\pm$ 1 seconds.	pads must be wet with solder.
Soldering Heat Resistance	The product should follow the reflow	
-	temperature cuve to test its reflow thermo	No interference in operation.
	stability.	
Terminal Mechanical Strength	For 10 seconds, the force of 9.8N (1.0kg) is	No damage or cutting off.
_	applied to each terminal in axial direction.	
Vibration	The buzzer shall be measured after applying	After the test, the part shall meet
	a vibration amplitude of 1.5 mm with 10 to	specifications without any
	55 Hz band of vibration frequency to each of	damage to the appearance or
	the 3 perpendicular directions for 2 hours.	performance. The SPL should be
Drop Test	The part will be dropped from a height of	within ±10 dBA of the initial SPL
	75 cm onto a 40 mm thick wooden board 3	measurement.
	times in 3 axes (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 25°C, the SPL should be within	
Thermal shock	The part will be subjected to 10 cycles. One cycle will consist of:		
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One cycle will last for 24 hours and consist of:	±10 dBA of the initial SPL measurement.	



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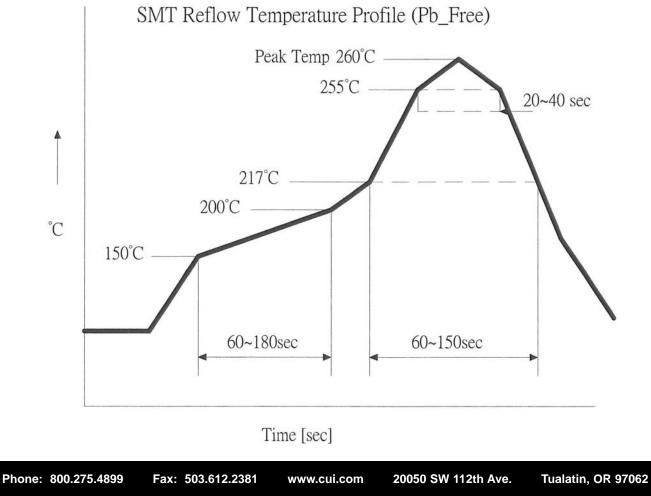
## **Reliability Test**

Item	Test Condition	Evaluation Standard
Operating (Life Test)	1. Continuous life test:	After the test, the part shall meet
	The part will be subjected to 72 hours at	specifications without any
	+55°C with 5.0 V dc applied.	damage to the appearance or performance. After 4 hours at
	2. Intermittent life test:	25°C, the SPL should be within
	A duty cycle of 1 minute on, 1 minute off, a minimum of 10,000 times at room temp (+25 ±10°C) with 5.0 V dc applied.	±10 dBA of the initial SPL measurement.

#### **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**

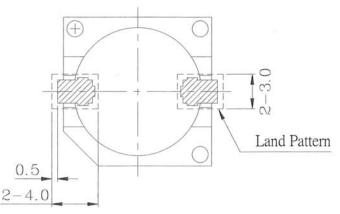




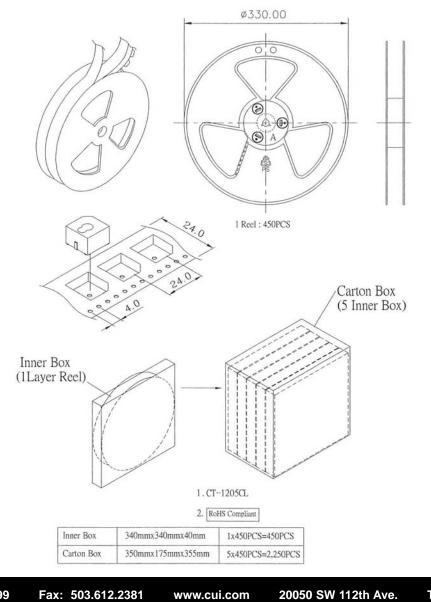
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**Recommended Land Pattern** 



Packaging



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