

Description: magnetic buzzer

Date: 9/22/2006

Unit: mm Page No: 1 of 4

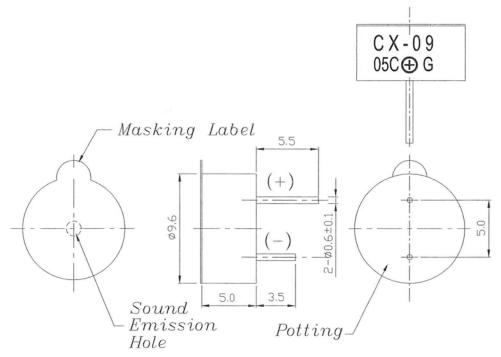


Specifications

Rated voltage	5.0 V dc	
Operating voltage	4.0 ~ 7.0 V dc	
Mean curren	35 mA max.	
Sound output	80 db min. (87 typical)	at 10 cm / 5 V dc
Resonant frequency	2730 ±300 Hz	
Operating temperature	-30 ~ +70° C	
Storage temperature	-40 ~ +85° C	
Dimensions	ø9.6 x H5.0 mm	
Weight	0.6 g	
Material	PBT (Black)	
Terminal	PIN type (Au Plating)	
RoHS	yes	

Appearance Drawing

Tolerance: ±0.5





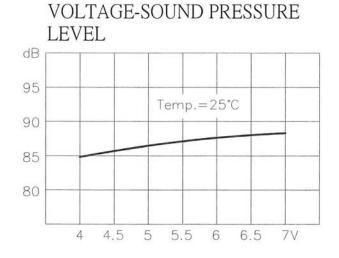
Description: magnetic buzzer

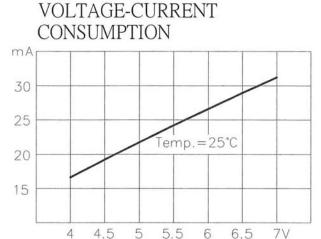
Date: 9/22/2006

Unit: mm

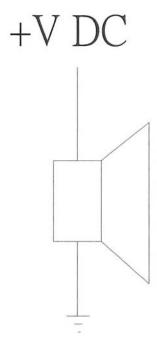
Page No: 2 of 4

Voltage: Sound Pressure Level / Voltage: Current Consumption





Measurement Method





Description: magnetic buzzer

Date: 9/22/2006

Unit: mm

Page No: 3 of 4

Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability	Lead terminals are immersed in solder bath	95% of the surface of the lead
	of 270 ±5°C for 3 ±1 seconds.	pads must be wet with solder.
Soldering Heat Resistance	Lead terminals are immersed up to 1.5mm from	
-	the buzzer's body in a solder bath of 260 ±5°C	No interference in operation.
	for 3 ±1 seconds.	
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: -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 24hours	±10 dBA of the initial SPL measurement.



Description: magnetic buzzer

Date: 9/22/2006

Unit: mm Page No: 4 of 4

Reliability Test

Item	Test Condition	Evaluation Standard
Operating (Life Test)	Continuous life test:	After the test, the part shall meet
	The part will be subjected to 72 at +55°C with	specifications without any
	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	±10 dBA of the initial SPL measurement.
	$(+25 \pm 10^{\circ}C)$ with 5.0 V dc applied.	

Test Conditions

Standard Test Condition
Judgement Test Condition

a) Tempurature: +5 ~ +35°C

a) Tempurature: +25 ±2°C

b) Humidity: 45 - 85%b) Humidity: 60 - 70%

c) Pressure: 860-1060 mbar

70% c) Pressure: 860-1060 mbar

Packaging

