

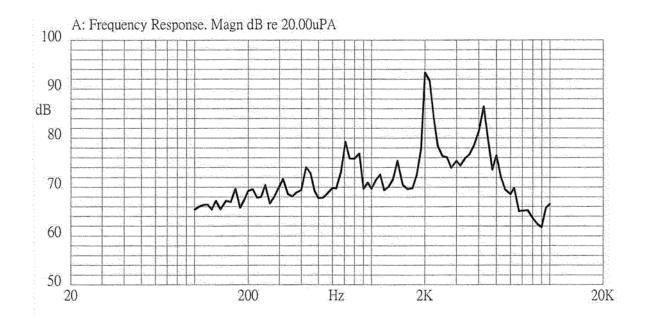
Description: magnetic buzzer

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Specifications		
Rated voltage	5.0 Vо-р	Vo-p
Operating voltage	3.0 - 8.0 Vo-p	ov
Mean current	45 mA max.	Applying rated voltage, 2400 Hz
		square wave, ½ duty
Coil resistance	47 ±7.0 Ω	
Sound output	Min. 85 (Typical 92) dBA	Distance at 10cm (A-weight free air).
		Applying rated voltage of 2400 Hz, square
		wave, 1/2 duty.
Rated frequency	2,400 Hz	
Operating temperature	-30 ~ +70° C	
Storage temperature	-40 ~ +85° C	
Dimensions	ø12.0 x H9.5 mm	See attached drawing
Weight	1.6 g	
Material	PBT (Black)	
Terminal	Pin type (Plating Au)	See attached drawing
RoHS	yes	

Frequency Response Curve



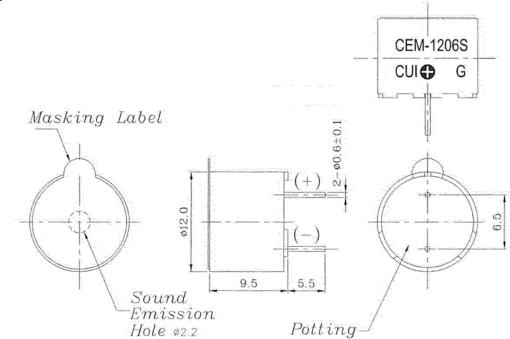


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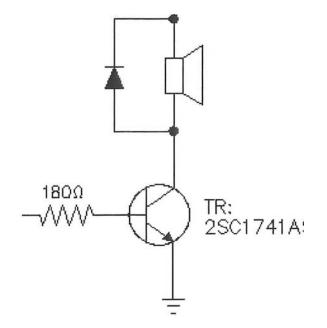
Appearance Drawing

Tolerance: ±0.5



Measurement Method







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Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability	Lead terminals are immersed in rosin for 5	90% min. of lead terminals should
	seconds and then immersed in solder bath	be wet with solder. (Except the
	of 270 ±5°C for 3 ±1 seconds.	edge of the terminal)
Soldering Heat Resistance	Lead terminals are immersed up to 1.5mm from	
-	the buzzer's body in solder bath of 260 \pm 5°C for No in interference in operation.	
	3 ±1 seconds.	
Terminal Mechanical Strength	Apply force of 9.8 N (1.0 kg) to the terminal for	No damage or cutting off.
-	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 should
	55 Hz band of vibration frequency to each of meet specifications without	
	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
-	75 cm onto a 40 mm thick wooden board 3 ±10 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	-	
Thermal shock	The part will be subjected to 10 cycles. One cycle will consist of:		
	+85°C -40°C 30 min. 60 min.	After the test, the part shall meet specifications without any damage to the appearance and performance except SPL. After 4 hours at +25°C, the SPL should be within ±10 dBA of the initial SPL.	
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One cycle will be 24 hours and consist of:		



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Reliability Tests

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

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



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Packaging

