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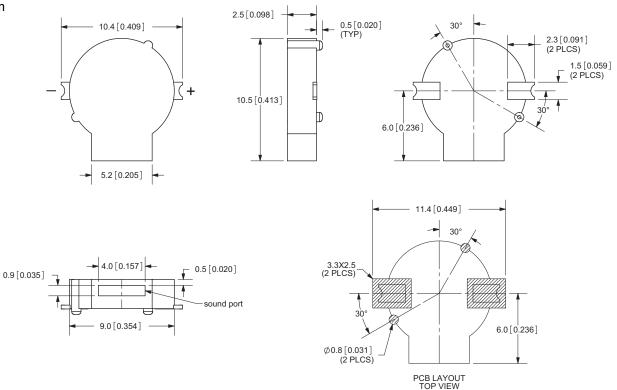
PART NUMBER: CCV-084B16 DESCRIPTION: magnetic buzzer

# **SPECIFICATIONS**

rated voltage	3.6 Vo-p	
operating voltage	2.5 ~ 4.5 Vo-p	
mean current	110 mA max.	at 3.6 Vo-p, sqaure wave, 2730 Hz
coil resistance	16 ± 2.4 Ω	
sound output	85 db min. (90 TYP)	at 10 cm/3.6 Vo-p, sqaure wave, 2730 Hz
rated frequency	2730 Hz	
operating tempurature	-30 ~ +70° C	
storage tempurature	-40 ~ +85° C	
dimensions	Ø9.0 x H2.5 mm	
weight	0.6 g max.	
material	PPS	
terminal	SMD type/Au plating	
RoHS	yes	

### APPEARANCE DRAWING

tolerance: ±0.3 units: mm



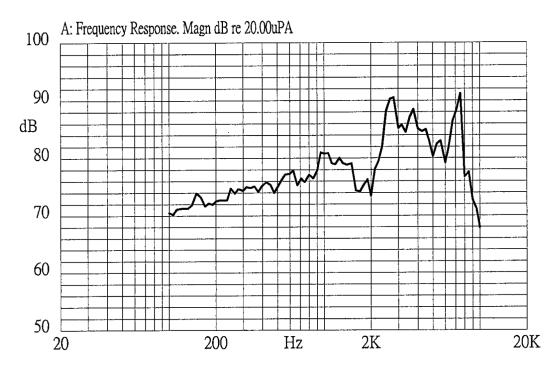


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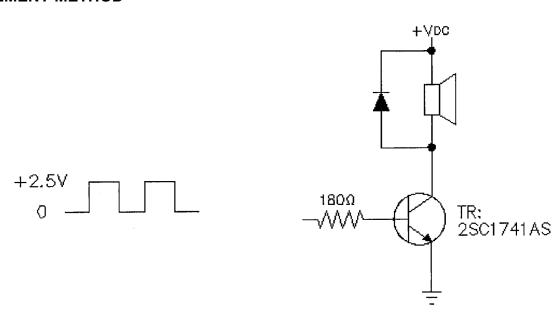
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# FREQUENCY RESPONSE CURVE



### **MEASUREMENT METHOD**





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**PART NUMBER:** CCV-084B16 **DESCRIPTION:** magnetic buzzer

# **MECHANICAL CHARACTERISTICS**

item	test condition	evaluation standard	
solderability	Lead terminals are immersed in solder bath	95% min. of the lead terminals	
	of 270 ±5°C for 3 ±1 seconds.	will be wet with solder.	
soldering heat resistance	The product is followed the reflow temperature	eflow temperature No interference in operation.	
-	curve to test its reflow thermo stability.	•	
terminal mechanical strength	Lead pads shall be soldered on the pc board,		
-	and a force of 9.8N (1.0kg) shall be applied	No damage or cutting off.	
	behind the part for 10 seconds.		
vibration	The buzzer shall be measured after applying	The value of oscillation	
	a vibration amplitude of 1.5 mm with 10 to	frequency/current consumption	
	55 Hz band of vibration frequency to each of	should be ±10% of the initial	
	the 3 perpendicular directions for 2 hours.	measurements. The SPL should	
drop test	The part will be dropped from a height of	be within ±10dB compared with	
	75 cm onto a 40 mm thick wooden board 3	the initial measurement.	
	times in 3 axes (X, Y, Z) for a total of 9 drops.		

# **ENVIRONMENT TEST**

item	test condition	evaluation standard
high temp. test	After being placed in a chamber at +85°C for	
lavo taman tant	96 hours.	
low temp. test	After being placed in a chamber at -40°C for	_
	96 hours.	
thermal shock	The part shall be subjected to 10 cycles. One	
	cycle will consist of:	
	+85℃	
	-40℃	The buzzer will be measured after
	30 min. 30 min.	being placed at +25°C for 4
	<del>                                     </del>	hours. The value of the
	60 min.	oscillation frequency/current
	<del></del>	consumption should be ±10%
temp. cycle test	The part shall be subjected to 5 cycles. One	compared to the initial measurements. The SPL should
	cycle will consist of:	
		be within ±10dB compared to the
	+85°C	initial measurements.
	a,b:90~98%RH c:80~98%RH	
	+25°C	
	24hours	



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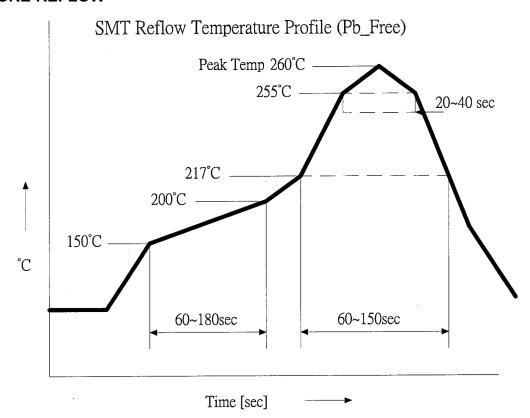
### **RELIABILITY TEST**

item	test condition	evaluation standard	
operating (life test)	Continuous life test:	The buzzer will be measured after	
	The part will be subjected to 72 hours of	being placed at +25°C for 4	
	continuous operation at +55°C with rated	hours. The value of the	
	voltage applied.	oscillation frequency/current	
		consumption should be ±10%	
	2. Intermittent life test:	compared to the initial	
	A duty cycle of 1 minute on, 1 minutes off, a	measurements. The SPL should	
	minimum of 10,000 times at room temp	be within ±10dB compared to	
	(+25 ±10°C) with rated voltage applied.	the initial measurements.	

# **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

### **TEMPERATURE REFLOW**





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# **PACKAGING**

