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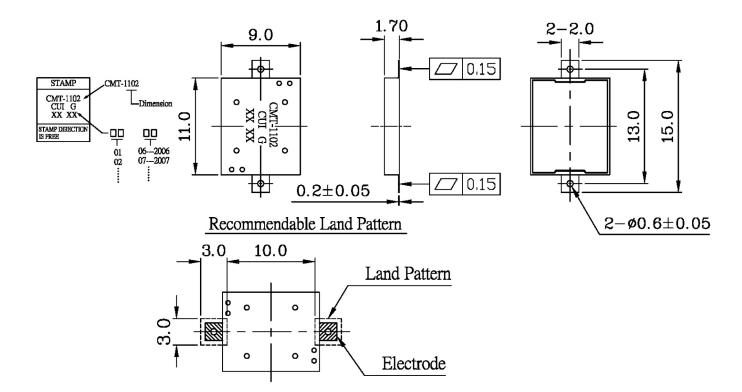
PART NUMBER: CMT-1102 DESCRIPTION: piezo audio transducer

SPECIFICATIONS

operating voltage	25.0 Vp-p max.	
current consumption	4.5 mA max.	at 5 Vp-p, square wave, 4.1 KHz
sound pressure level	73 db min.	at 10 cm / 5 Vp-p, square wave, 4.1 KHz
electrostatic capacitance	12,000 pF ±30%	at 1KHz / 1 V
operating tempurature	-40 ~ +80° C	
storage tempurature	-40 ~ +80° C	
dimensions	ø11.0 x W9.0 x H1.7 mm	
weight	0.5 g max.	
material	LCP (white)	
terminal	SMD type	
RoHS	yes	

APPEARANCE DRAWING

tolerance: ±0.3

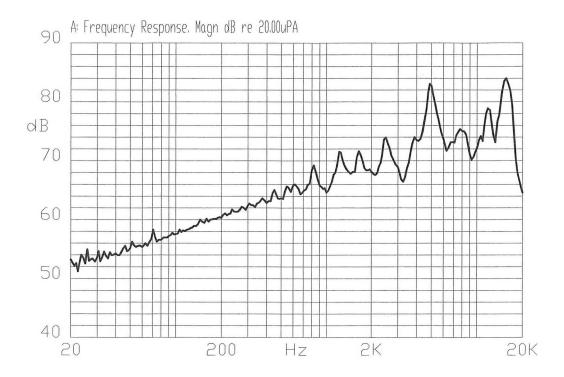




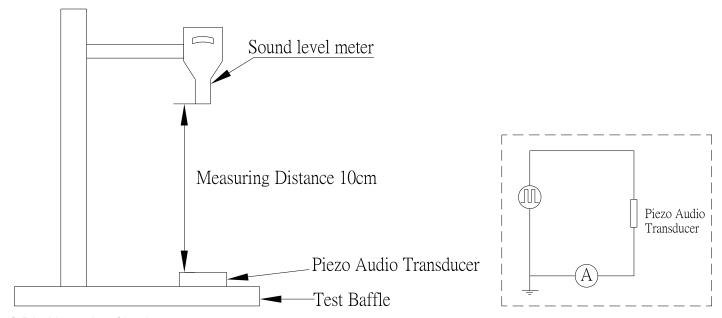
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TYPICAL FREQUENCY RESPONSE CURVE



MEASUREMENT METHOD



S.P.L. Measuring Circuit

Input Signal: 5Vp-p, 4.1 KHz, square wave Mic: RION S.P.L. meter UC30 or equivalent

S.G.: Hewlett Packard 33120A function generator or equivalent



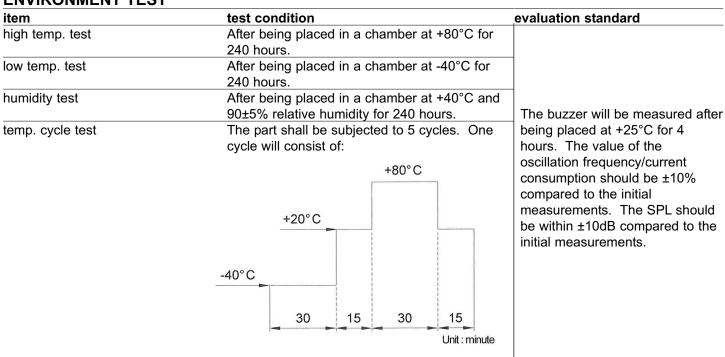
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MECHANICAL CHARACTERISTICS

item	test condition	evaluation standard	
solderability	Lead terminals are immersed in rosin for	95% of the lead pad surface	
	5 seconds and then immersed in solder bath	must be covered with solder	
	of 230 ±5°C for 2 ±0.5 seconds.		
soldering heat resistance	1) IR Reflow		
	Pre-heating conditions will be 140~160°C for		
	60~120 seconds. Ascending time up to 150°C		
	should be longer than 30 seconds. Heating		
	conditions should be within 10 seconds at		
	230°C min. Peak temperature should be lower		
	than 255°C and then be placed in natural	No interference in operation.	
	conditions for 1 hour before being measured.		
	2) Soldering Iron		
	Soldering iron of 270±5°C should be placed		
	0.5mm above the transducer electrode. Melting		
	solder should be applied to electrode for 3±1		
	seconds and then be placed in natural		
	conditions for 4 hours before being measured.		
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 should be subjected to a vibration	After the test, the part should	
	cycle of 10 to 55 Hz for a period of 1 minute.	meet specifications without any	
	Peak amplitude should be 1.55mm. The	damage in appearance and	
	vibration test should consist of 2 hours to each	performance, except SPL. SPL	
	of the 3 perpendicular directions.	should be within ±10dB compared with the initial measurement.	

ENVIRONMENT TEST





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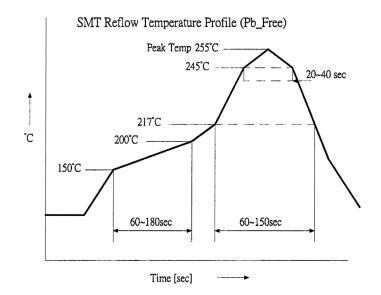
RELIABILITY TEST

item	test condition	evaluation standard
operating (life test)	1. Continuous life test:	The buzzer will be measured after
	The part will be subjected to 48 hours of	being placed at +25°C for 4
	continuous operation at +65°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 minute off, a	measurements. The SPL should
	minimum of 5,000 times at room temp	be within ±10dB compared to
	(+25 ±2°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

RECOMMENDED TEMPERATURE PROFILE FOR REFLOW OVEN





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PACKAGING

