

SPECIFICATION FOR APPROVAL

Customer :

Description : PIEZO Date : 2005/10/6

Model No. : PAC-PT-3914-P

Customer Model No. : _____

Drawing No.: _____

Approval No. : _____

Date of Approval	/ /
Authorization Signature	

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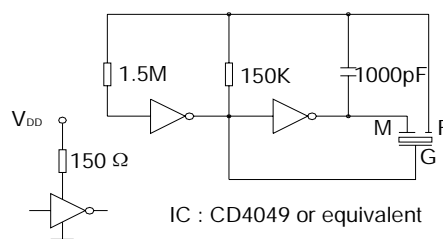
● Technical terms

Type		PAC-PT-3914-P
Rated Voltage Square wave	(V _{DC})	9
Operating Voltage	(V _{DC})	4.5~15
★S.P.L at 10cm	(dB)	≥ 95
Resonant Frequency	(Hz)	3400±500
★Current	(mA)	≤ 15
Operating Temp.	(°C)	-20~+70
Storage Temp.	(°C)	-30~+80

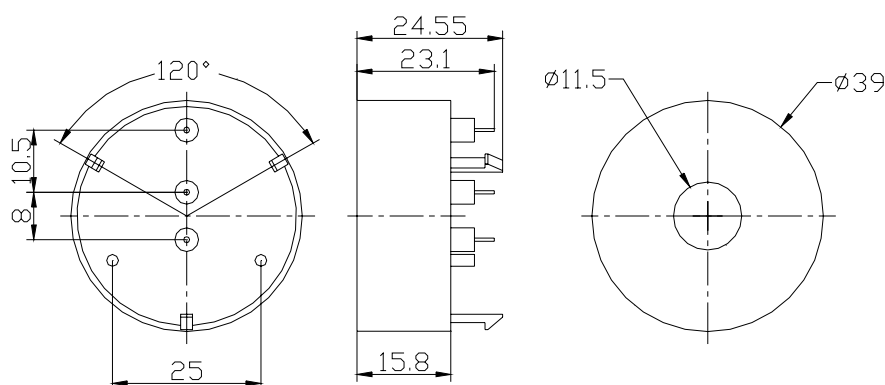
★ Value applying at rated voltage.

★ Distance for measurement : 10cm

Standard Circuit



Part Outline



				Date	2005/10/6	Specification for piezo-buzzer Preliminary PAC-PT-3914-P
				Designed By	Ryan Wei	
				Checked By	Daniel Liu	
				Division DR		
				PAC		051006
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Reliability test

Items		Specifications	Conditions
1	High temp.storage life	The part shall be capable of withstanding a storage temperature of $+60\pm 2^{\circ}\text{C}$ for 240hours.	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall be initial value $\pm 10\text{dB}$
2	Low temp.storage life	The part shall be capable of withstanding a storage temperature of $-20\pm 2^{\circ}\text{C}$ for 240hours.	
3	Temperature cycle	total 5 cycles 1cycle consisting of $-20\pm 2^{\circ}\text{C}$ 30min	
		$+20\pm 5^{\circ}\text{C}$ 15min	
		$+60\pm 2^{\circ}\text{C}$ 30min	
		$+20\pm 5^{\circ}\text{C}$ 15min	
4	Humidity test	$+40\pm 2^{\circ}\text{C}$,90~95%RH,240hours	
5	Shock	Sounder shall be measured after being applied shock(980m/s^2)for each three mutually perpendicular directions to each of 3 times by half sine wave.	
6	Vibration	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute.Total peak amplitude shall be 1.5mm.The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.	
7	Solder heat resistance	The part leads(pins) shall be immersed in molten solder with 1.5mm depth maintained at $300\pm 5^{\circ}\text{C}$ for a period of 3 ± 0.5 seconds,then with 1.5mm depth maintained at $260\pm 5^{\circ}\text{C}$ for a period of 10 ± 1 seconds.The part shall be placed at room temp. for 4hrs before measured	
8	Solderability	The part leads(pins)shall be immersed in molten solder maintained at $230^{\circ}\text{C}\pm 5^{\circ}\text{C}$ for a period of 3.0 ± 0.5 seconds	90% min. lead terminals shall be wet with solder. (Except the edge of terminal)

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