



Contitec Electronics Ltd.
Schatzbogen 33
D-81829 München


Tel. +49 89 99 81 86 30
Fax. +49 89 3219 50 75
eMail: sales@contitec.com
web: www.contitec.com

Component Specification

Product : Piezo Transducer
Part Number : CA-P2270A-154080T
Drawing No : FDP-2569

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2. Electrical & Acoustical Characteristics
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1) General

This product is applied to our standard the magnetic transducer specification. Please contact us for customer specific solutions.

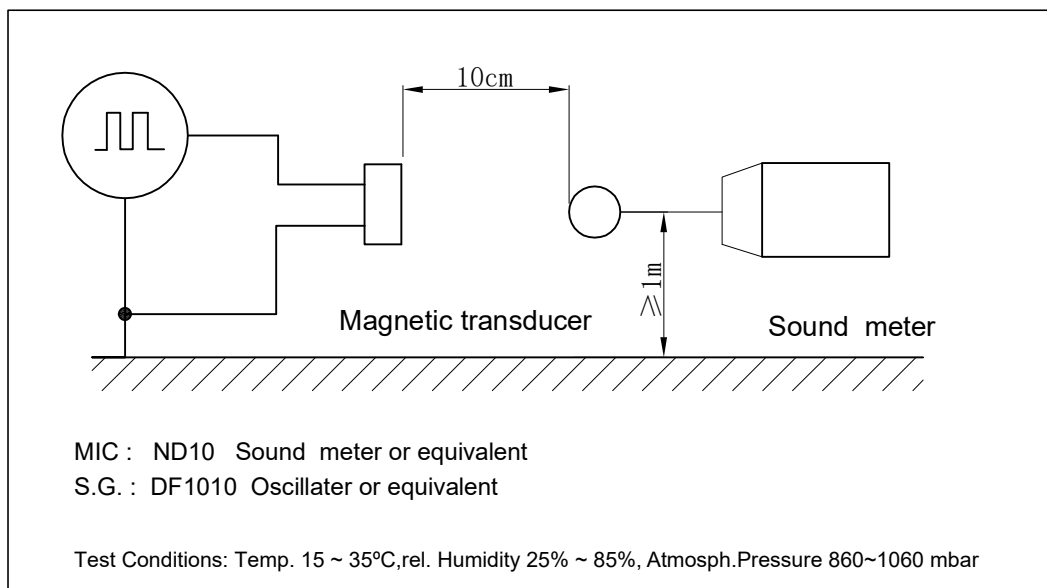
2) Electrical & Acoustical Specifications

	Type	Specification
1	Rated Voltage	1,5V
2	Operating Voltage	1~25V
3	Resonance Frequency	4000 Hz
4	Min. Sound Pressure Level	Min. 80dB/1,5V/10cm
5	Capacitance at 100Hz	30000pF± 30%
6	Operating Temperature Range	-20°C ~ +70°C without loss of function
7	Store Temperature Range	-30°C ~ +80°C without loss of function
8	Weight	1.0g
9	Dimension	Ø22mm x 7mm
10	Housing Material	PBT/Black

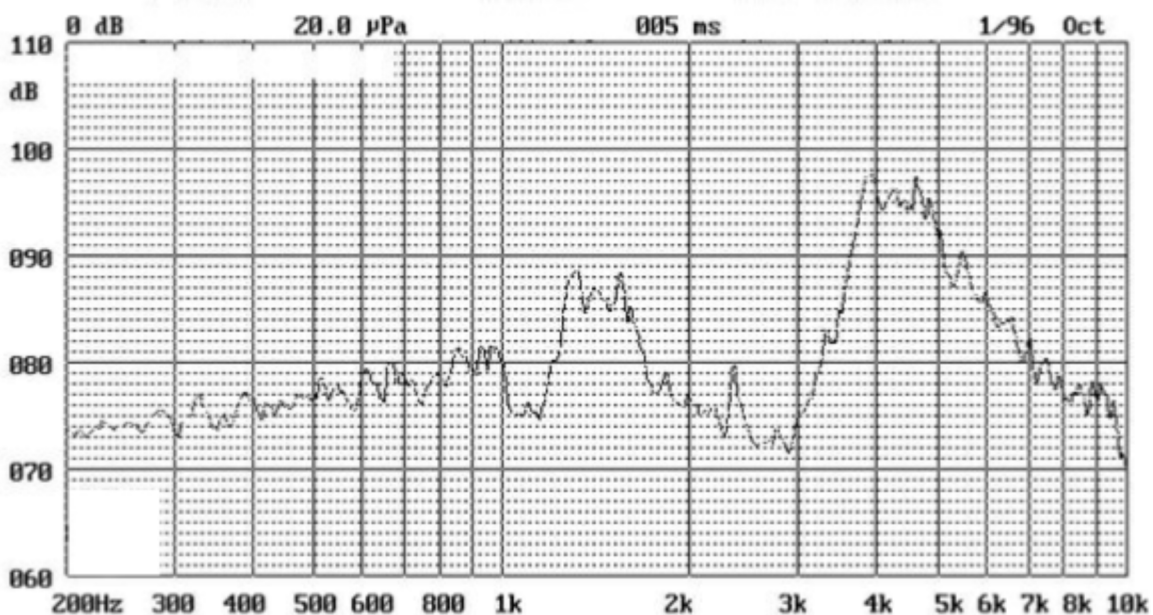
1.0	12/11/2012		L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by

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3) Test Circuit



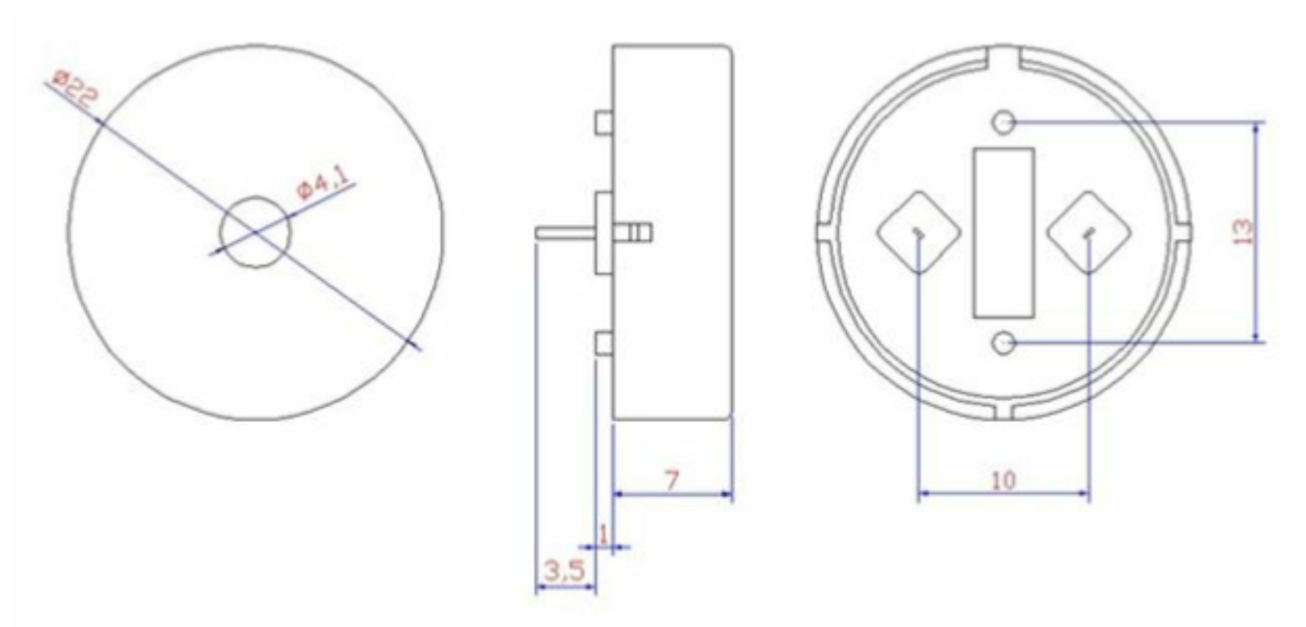
4) Frequency Response Curve




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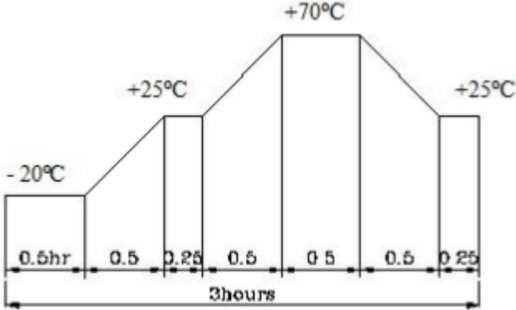
5) Dimensions




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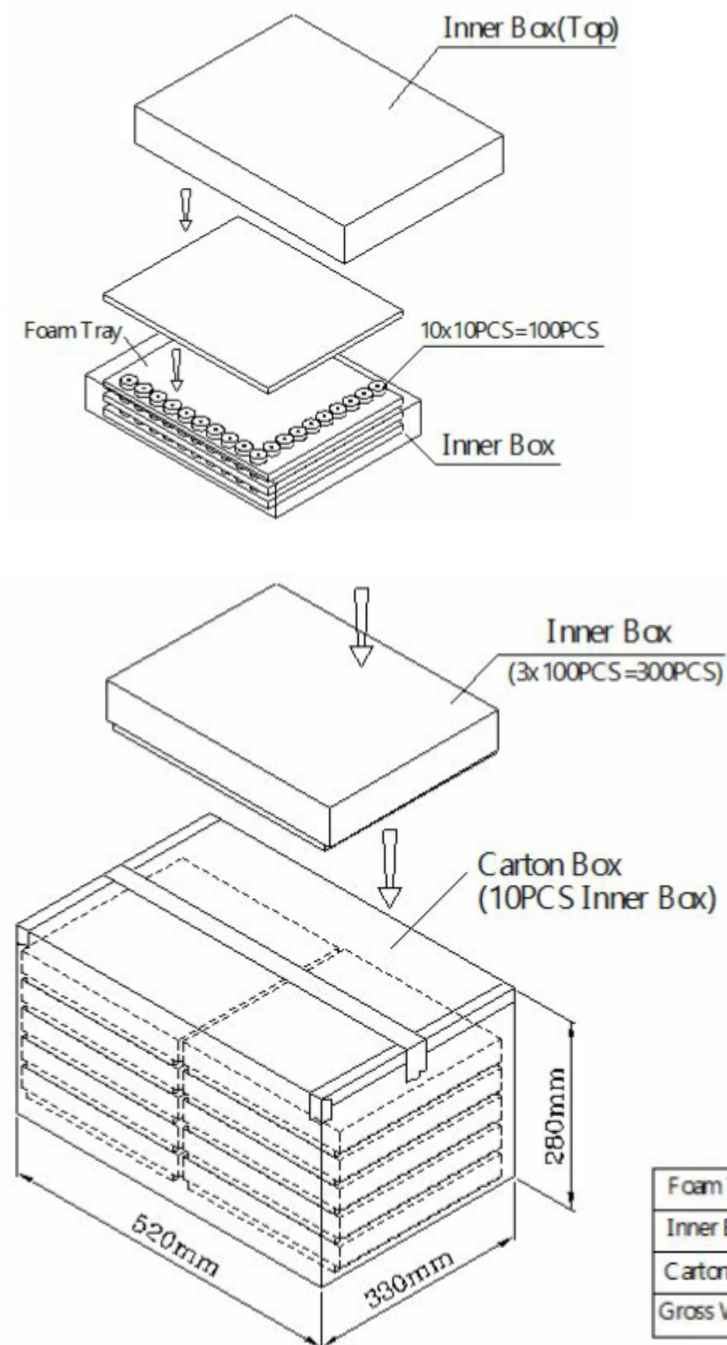
6) Reliability Test

No	Items	Test Condition
1	High Temperature Test (Storage)	After being placed in a chamber with $80\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$.
2	Low Temperature Test (Storage)	After being Placed in a chamber with $-30\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$.
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at $40\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$.
4	Temperature Cycle Test	<p>The part shall be subjected to 5 cycles. One cycle shall be consist of</p>  <p>Allowable variation of SPL after test: $\pm 10\text{dB}$.</p>
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm . Allowable variation of SPL after test: $\pm 10\text{dB}$.
6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: $\pm 10\text{dB}$.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+30\pm 5^{\circ}\text{C}$ for 3 ± 1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

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7) Packing



Foam Tray	280mmx230mmx10mm	1x100PCS=100PCS
Inner Box	315mmx245mmx50mm	3x100PCS=300PCS
Carton Box	520mmx330mmx280mm	10x300PCS=3000PCS
Gross Weight		9.5Kg

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8) Revision

Rev. No	Date	Page	Description	Sign
10	12/11/2012	all	Primary	Wang.Xue

1 . 0	12/11/2012		L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by