



Contitec Electronics Ltd.
Martin-Kollar-Str. 4
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 : Magnetic Transducer
Part Number : CA-M858530V-362785S
Drawing No : DRW161119

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1) General

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

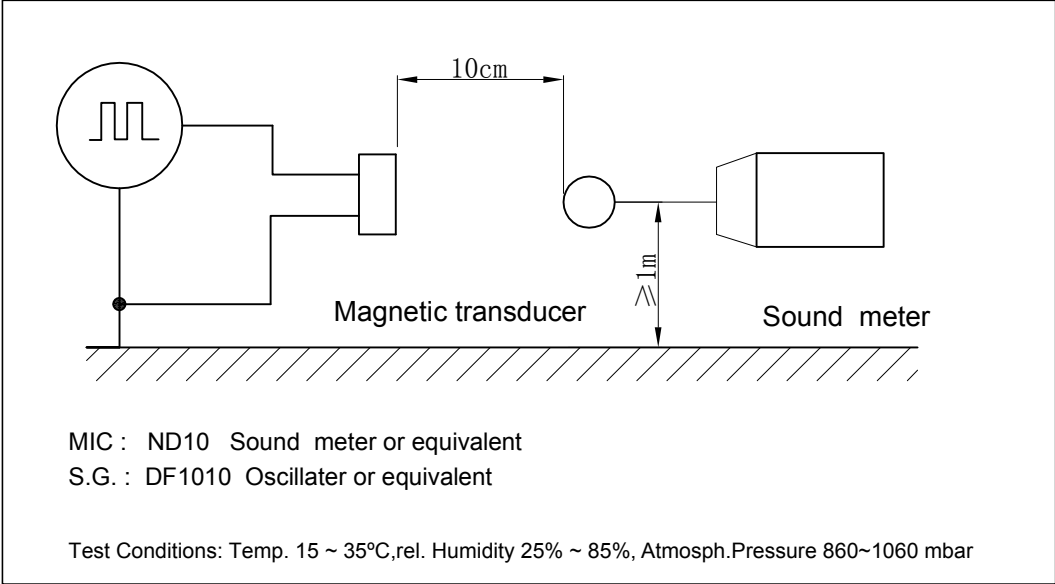
2) Electrical & Acoustical Specifications

	Type	Specification
1	Rated Voltage	3.6V
2	Operating Voltage	2.5~4.5V
3	Max. Rated Current	100mA
4	Resonance Frequency	2730 Hz
5	Min. Sound Pressure Level	85dB
6	Coil Resistance (R)	16±3Ω
7	Operating Temperature Range	-20~+70°C
8	Store Temperature Range	-30~+80°C
9	Weight	0.60g
10	Dimension	8.5x8.5x3.0 mm
11	Housing Material	LCP6130/Black

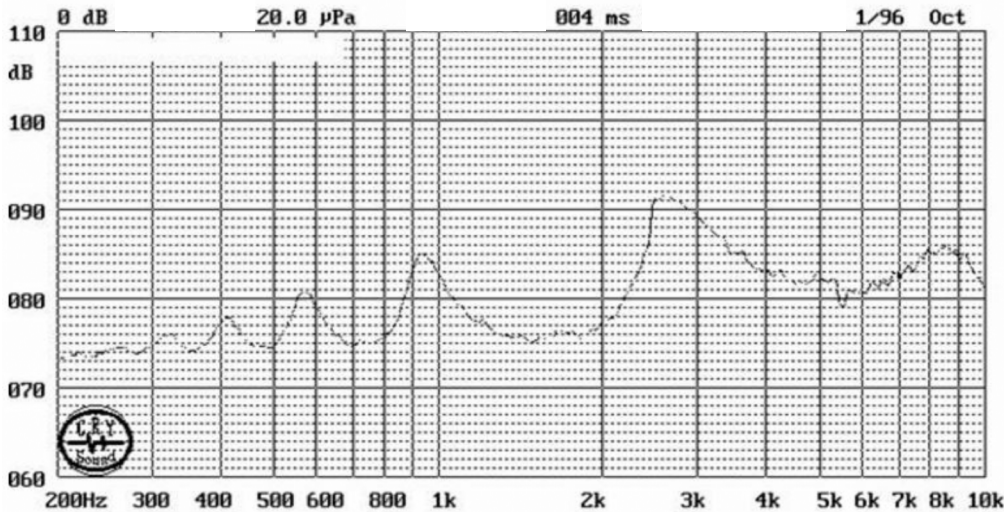
1.0	19/05/15		L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by

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3) Test Circuit



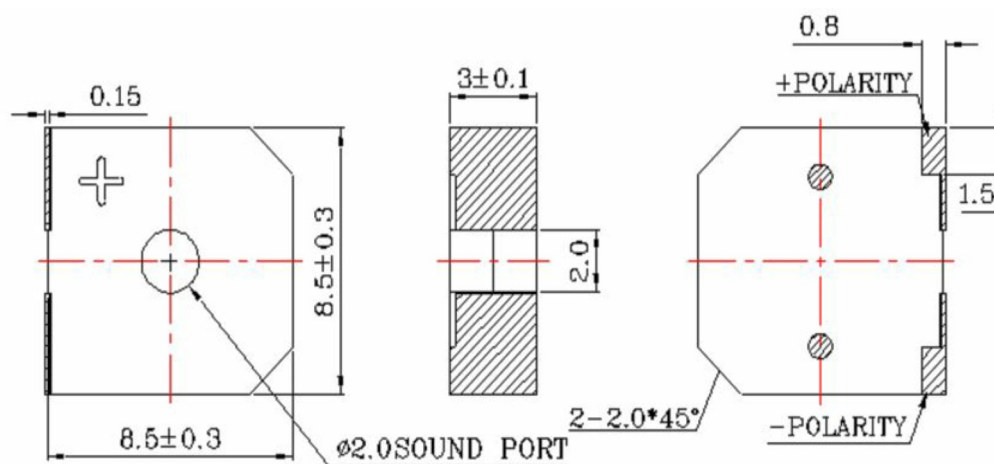
4) Frequency Characteristics




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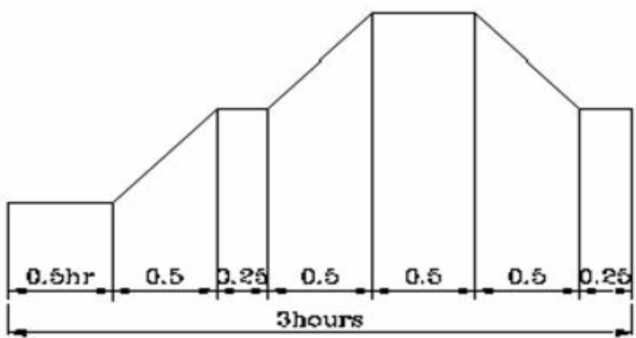
5) Dimensions & Structure




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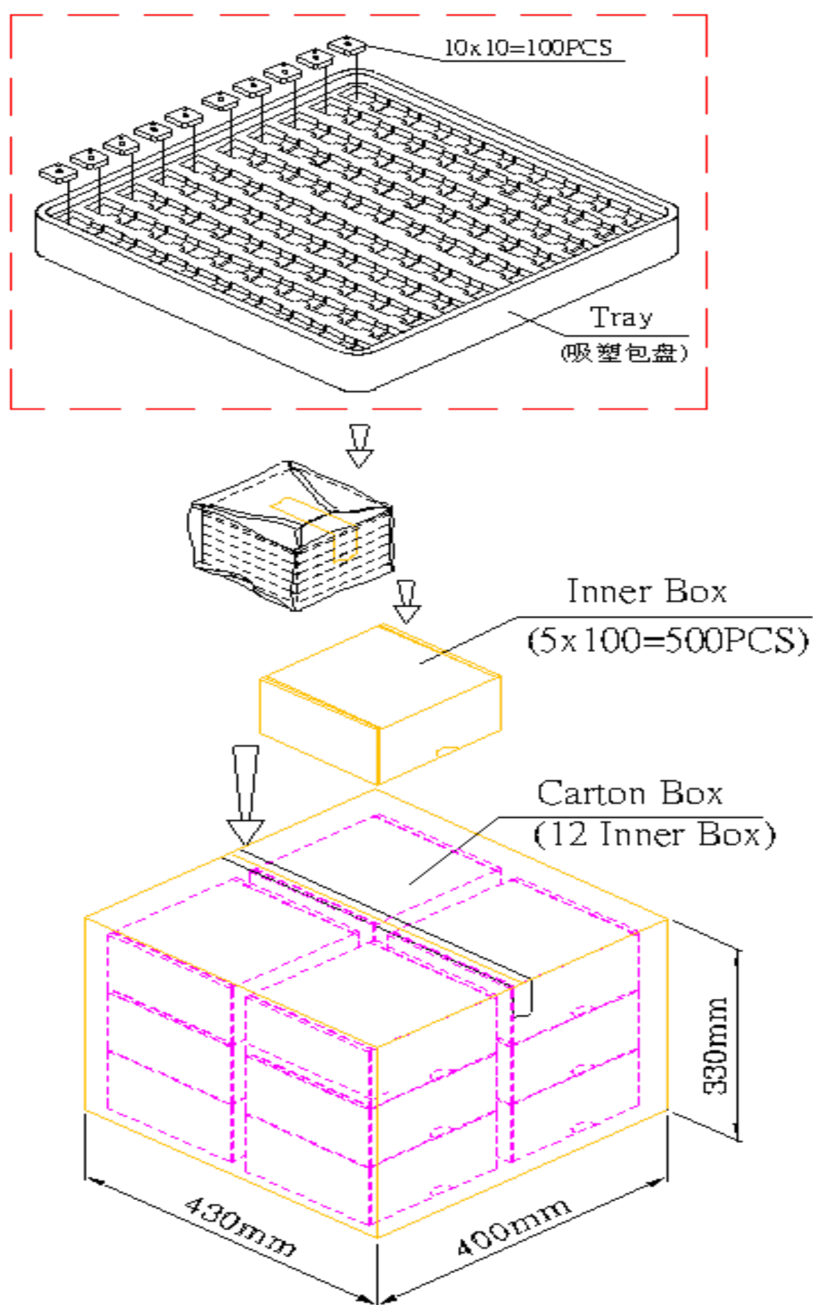
6) Reliability Test

No	Items	Specification
1	Heat Resistance	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	Cold Resistance	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	Temperature Cycle	<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>
4	Temp./Humidity Resistance	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: $\pm 10\text{dB}$.
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	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300\pm 5^{\circ}\text{C}$ for 3 ± 1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Terminal Strength	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	180mmx180mmx23mm	1x100PCS=100PCS
Inner Box	200mmx190mmx100mm	5x100PCS=500PCS
Carton Box	430mmx400mmx330mm	12x500PCS=6,000PCS

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8) Revision

Rev. No	Date	Page	Description	Sign
10	19/05/15	all	Production release	Wang.Xue

1 . 0	19/05/15		L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by