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-M555525H
Drawing No : DRW161116

Content

1. General
2. Electrical & Acoustical Characteristics
3. Test Circuit
4. Frequency Characteristics
5. Dimensions & Structure
6. Reliability Test
7. Packing
8. Revision

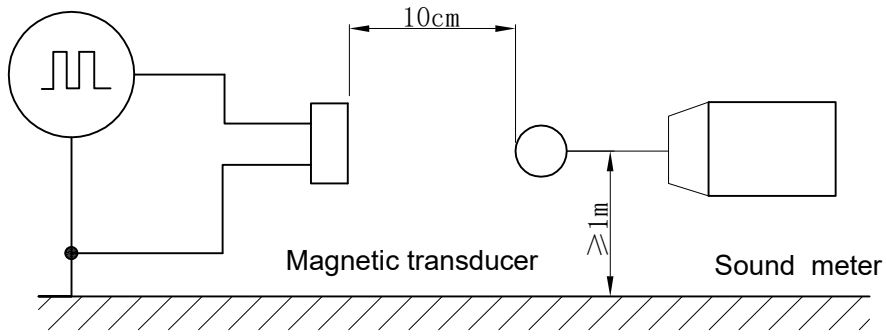
1) General

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	3V
2	Operating Voltage	2.5~4.5V
3	Max. Rated Current	120mA max.
4	Resonance Frequency	3100 Hz
5	Min. Sound Pressure Level	85dB
6	Coil Resistance (R)	10± 1.5Ω
7	Operating Temperature Range	-40 ~ +85°C without loss of function
8	Store Temperature Range	-40 ~ +85°C without loss of function
9	Weight	0.80g
10	Dimension	5.5x5.5x2.5 mm
11	Housing Material	LCP6130/Black

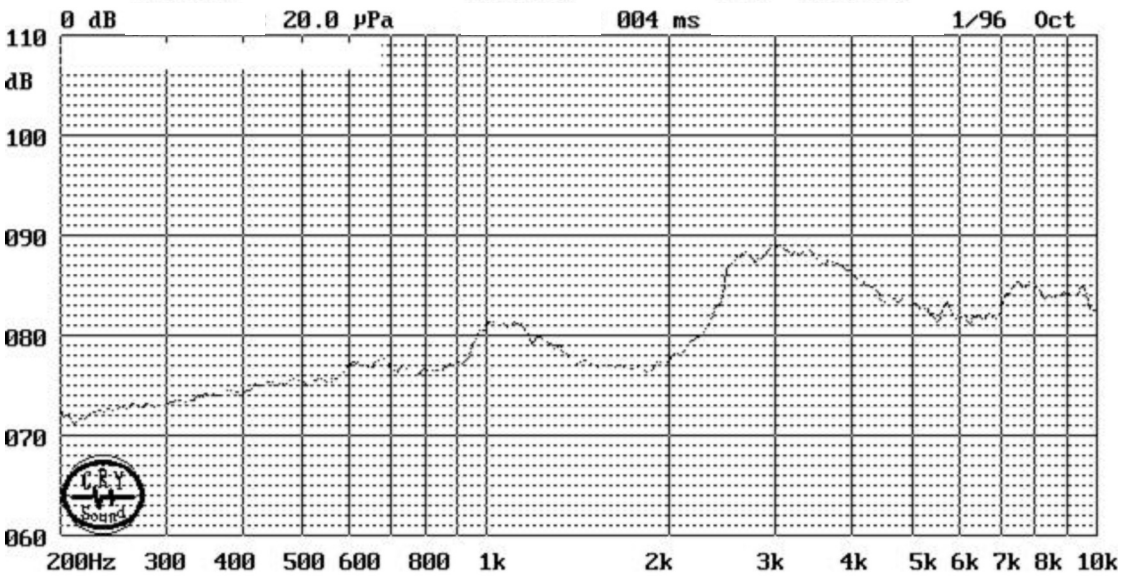
3) Test Circuit



MIC : ND10 Sound meter or equivalent
S.G. : DF1010 Oscillater or equivalent

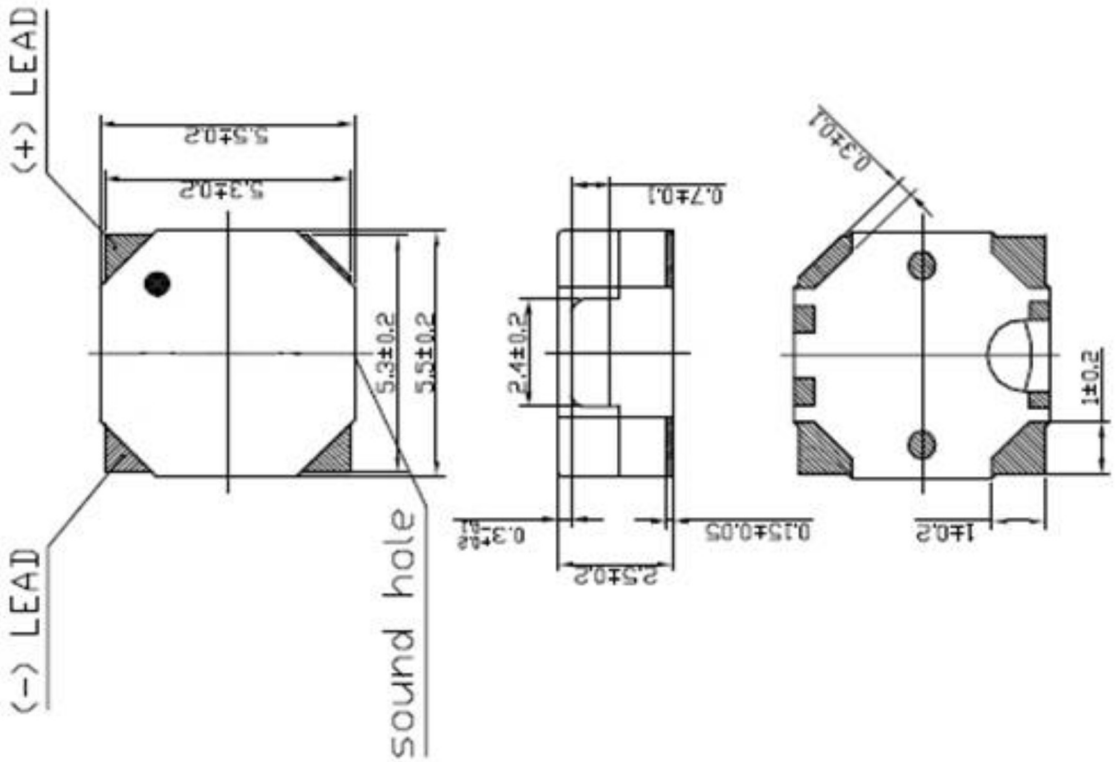
Test Conditions: Temp. 15 ~ 35ºC,rel. Humidity 25% ~ 85%, Atmosph.Pressure 860~1060 mbar

4) Frequency Characteristics



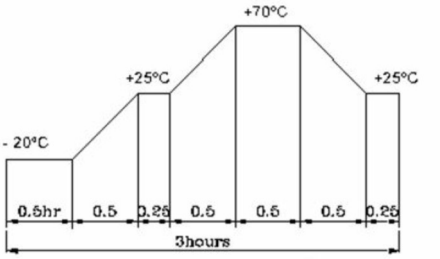
1 . 0	14/04/15		L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by

5) Dimensions & Structure

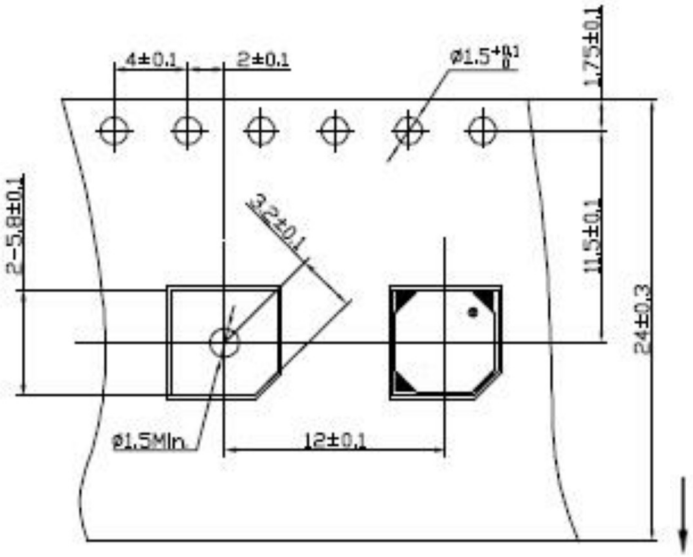


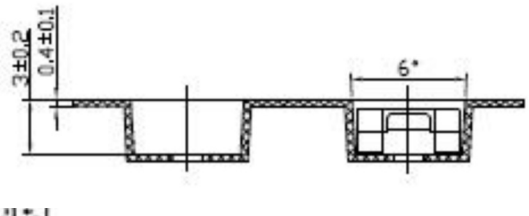
1 . 0	14/04/15		L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by

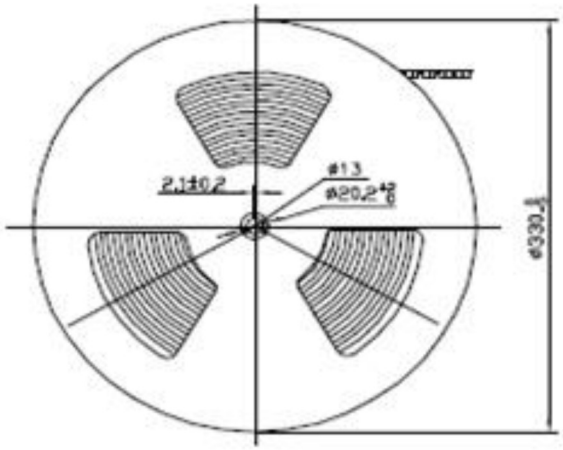
6) Reliability Test

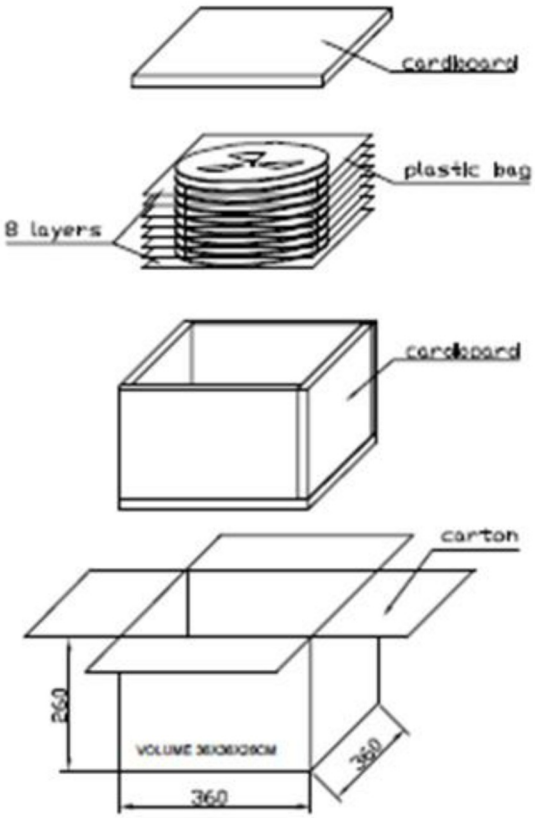
	Items	Specification
1	Heat Resisance	After being placed in a chamber with 80±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test:± 10dB.
2	Cold Resistance	After being Placed in a chamber with -30±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test:± 10dB.
3	Temperature Cycle	The part shall be subjected to 5 cycles. One cycle shall be consist of:  Allowable variation of SPL after test: ±10dB.
4	Temp./Humidity Resistance	After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ± 10dB.
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: ±10dB.
6	Vibration Test	After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test:± 10dB.
7	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300±5°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.

7) Packing









1 . 0	14/04/15		L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by

8) Revision

Rev. No	Date	Page	Describtion	Sign
10	14/04/15	all	Production release	Wang.Xue