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 Buzzer
Part Number : CA-M555517A-304075S
Drawing No : FU17023136

Content

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

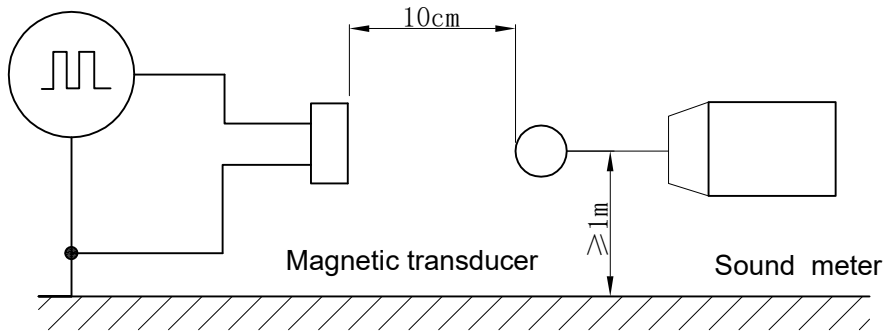
1) General

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	2~4V
3	Max. Rated Current	110mA/3V
4	Resonance Frequency	4000 Hz
5	Min. Sound Pressure Level	75dBV/10cm
6	Coil Resistance (R)	12± 3Ω
7	Operating Temperature Range	-20 +70°C
8	Store Temperature Range	-30 +80°C
9	Weight	0.60g
10	Dimension	5.5 x 5.5 x 1.7
11	Housing Material	LCP(Black) Top(Brass)

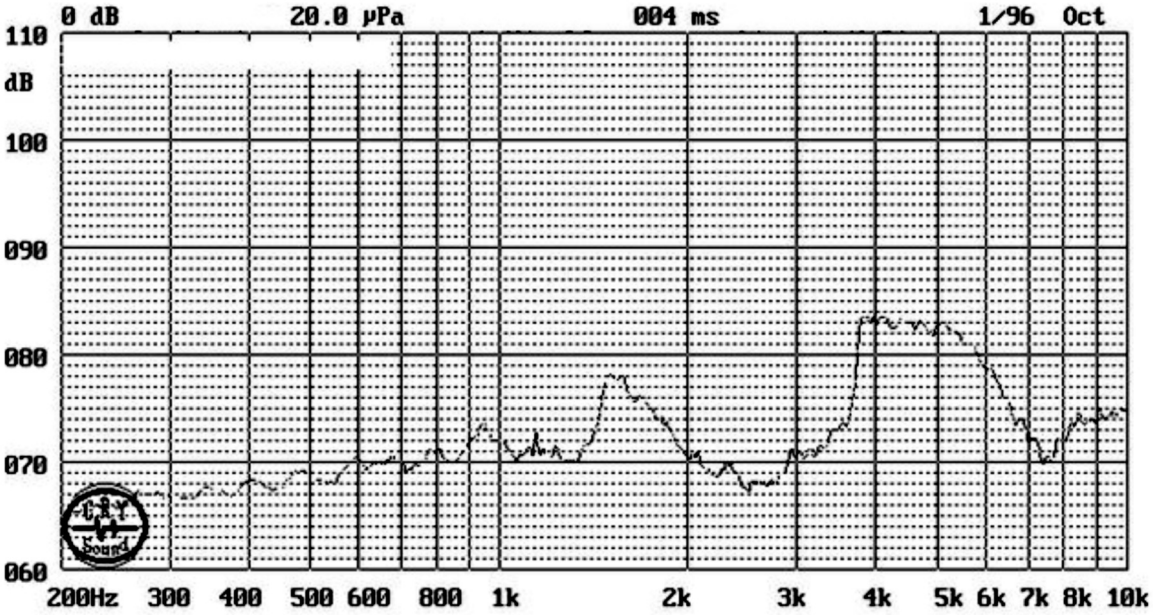
3) Test Circuit



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

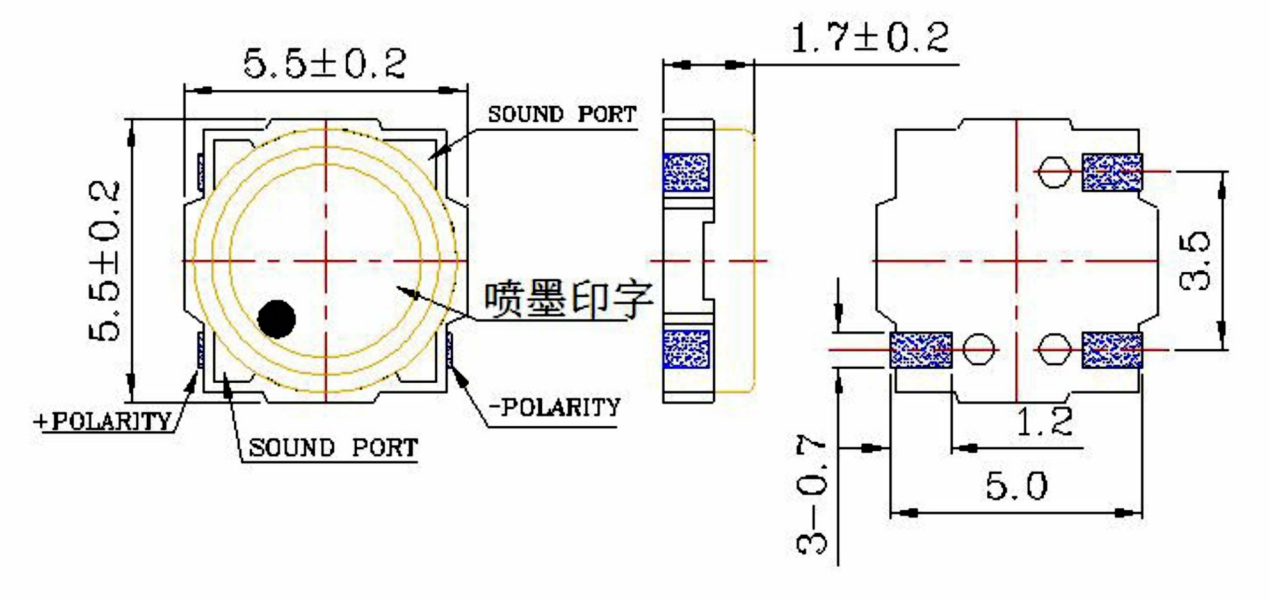
Test Conditions: Temp. 15 ~ 35ºC,rel. Humidity 25% ~ 85%, Atmosph.Pressure 860~1060 mbar

4) Frequency Characteristics



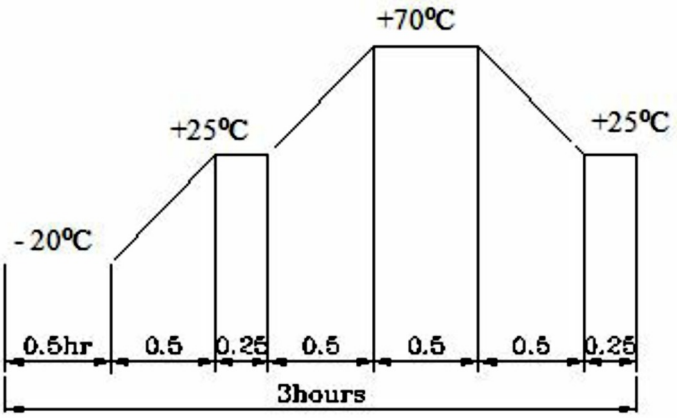
1 . 1	28/04/14	Process improvements	Zhu	Ye	G. Schubert
1 . 0	14/06/08	Production release	L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by

5) Dimensions & Structure

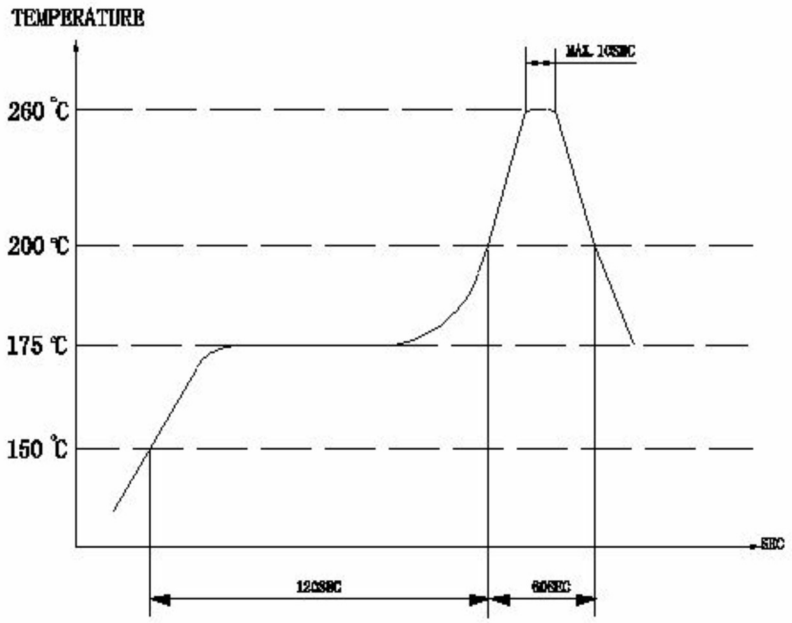


1 . 1	28/04/14	Process improvements	Zhu	Ye	G. Schubert
1 . 0	14/06/08	Production release	L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by

6) Reliability Test

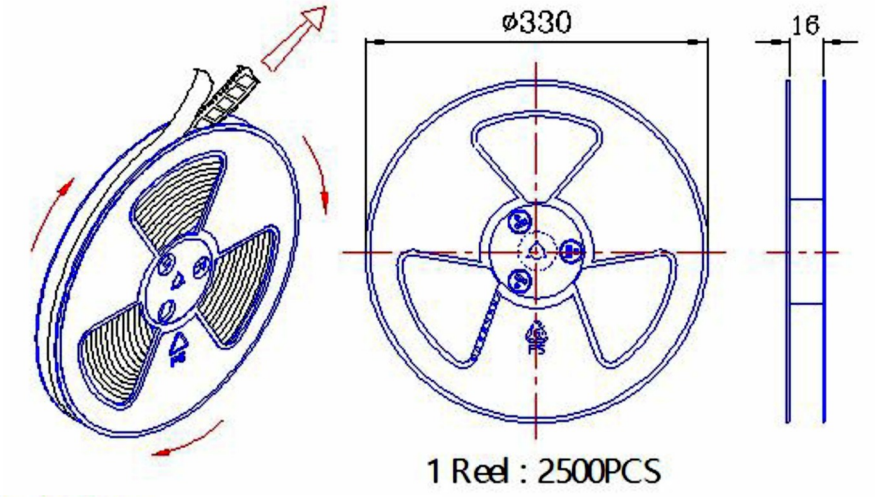
No	Items	Specification
1	Heat Resisance	After being placed in a chamber with 80/2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
2	Cold Resistance	After being Placed in a chamber with -30/2ºC for 96 hours and then being placed in normal 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 40/2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
5	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: 10dB.
6	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.

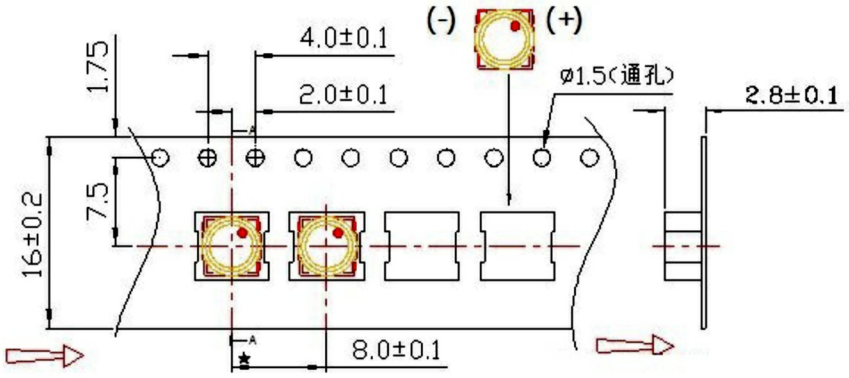
Reliability Test

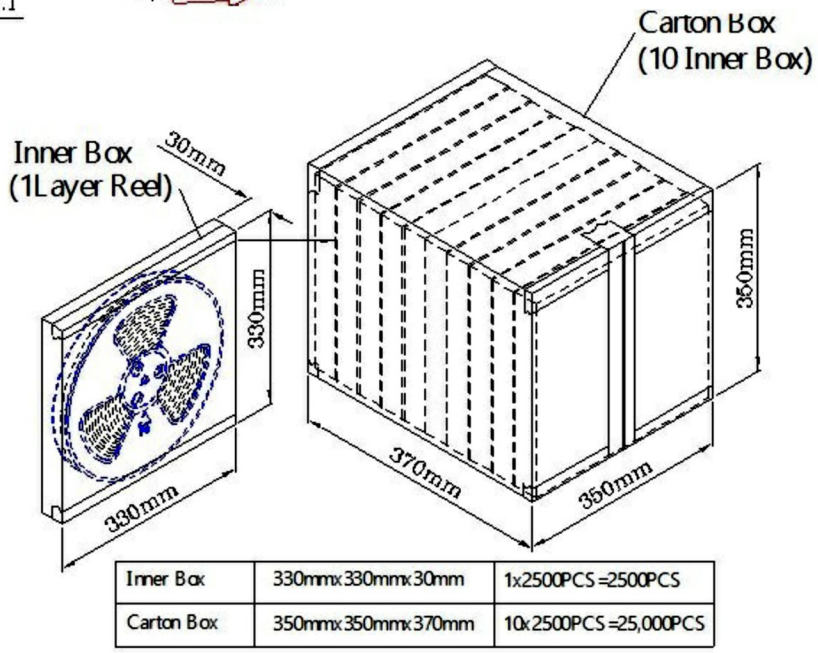
No	Items	Specification
7	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300ºC for 1(3) seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Reflow Soldering	

1 . 1	28/04/14	Process improvements	Zhu	Ye	G. Schubert
1 . 0	14/06/08	Production release	L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by

7) Packing







Inner Box	330mmx330mmx30mm	1x2500PCS=2500PCS
Carton Box	350mmx350mmx370mm	10x2500PCS=25,000PCS

1 . 1	28/04/14	Process improvements	Zhu	Ye	G. Schubert
1 . 0	14/06/08	Production release	L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by

8) Revision

Rev. No	Date	Page	Describtion	Sign
1 . 0	14/02/13	all	Production release	Wang.Xue
1 . 1	28/04/14	all	Process improvements	Ye

1 . 1	28/04/14	Process improvements	Zhu	Ye	G. Schubert
1 . 0	14/06/08	Production release	L. Hua	T. Feng	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by