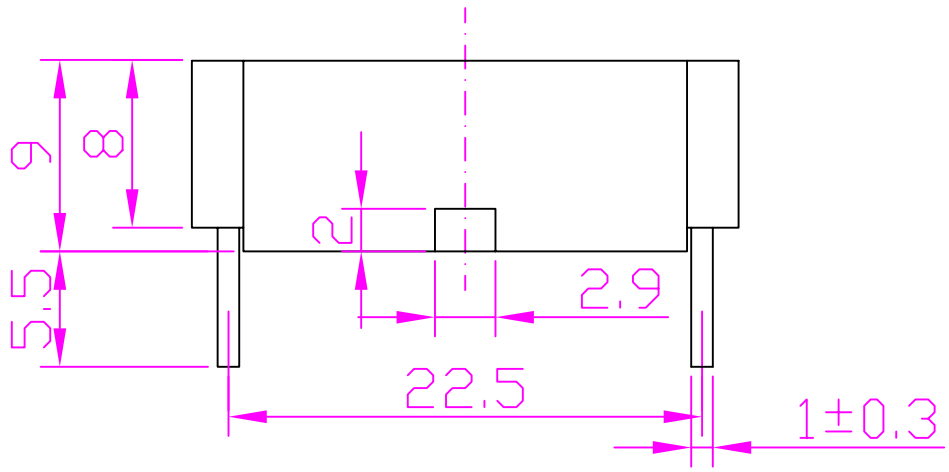
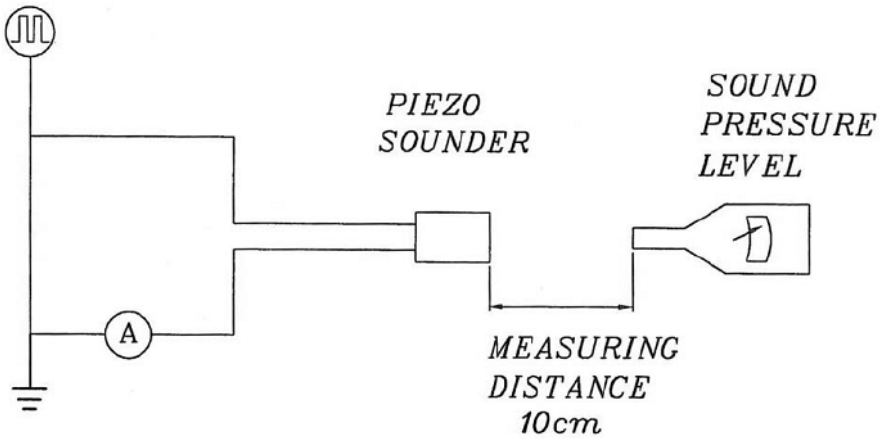
DWG. NO. BZ-4327-F REV. "-"

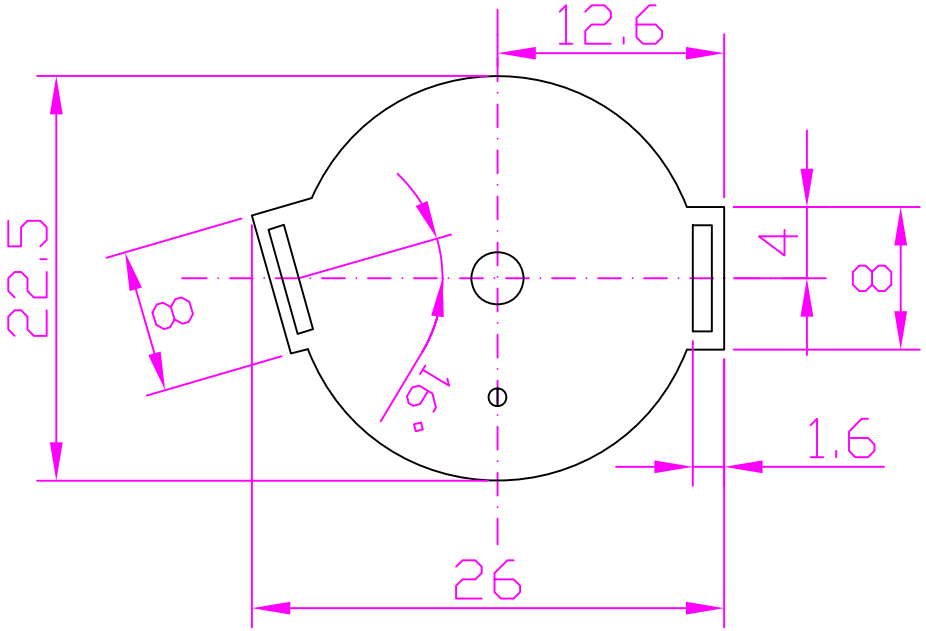
PART NO. REP-2320-NL

Tolerance: ±0.5mm

Unit: mm







Scope	This specification is only used for piezo buzzer	
No.	Items	Specifications
1	Rated Voltage	10VP-P Square Wave
2	Operating Voltage	1-30VP-P Square Wave
3	Max.Rated Current	3.5mA/10Vp-p Square Wave
4	Min.Sound Pressure Level	85dB/2048Hz/10Vp-p Square Wave/10cm
5	Resonant Frequency	2048±500Hz
6	Capacitance at 120Hz	24,000pF±30%
7	Operating Temperature	-20～+60℃
8	Store Temperature	-30～+70℃
9	Weight	2g

NOTE: ALL DIMS ARE IN mm.

ECN#	DATE	SYM	REVISION RECORD	AUTH	BY

PROJECTION

SCALE N/A

TOLERANCE EXCEPT AS NOTED

DEC. INCHES N/A

DEC. MILLIMETERS ±0.5

ANG. N/A

RDI Research Develop Innovate

RDI, Inc. 333 North Bedford Road, Suite 135, Mount Kisco, NY 10549

TITLE: Piezo Buzzer / RoHS Complaint

DR.	DATE	REF.	SHEET
Tina	04/19/12	P/N: REP-2320-NL	1 OF 2

CK.	PRE-	DRAWING NO.	SIZE	REV.
GM	BZ	4327	F	-

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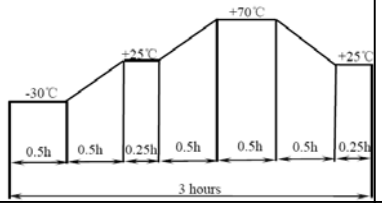
1 . MECHANICAL CHARACTERISTICS

No.	Item	Test Condition	Evaluation Standard
1.1	Terminal Mechanical Strength	The force 10 seconds of 9.8N(1.0Kg)is applied to each terminal in axial direction	No damage and cutting off
1.2	Vibration Test	Buzzer shall be measured after being applied vibration of Amplitude of 1.5mm with 10 to 55hz band of vibration frequency to each of 3 per-pendicuiar directions for 2 hours	After the test the part shall meet specifications with -out any damage in appearance and the SPL should be in ±10dBA.
1.3	Drop Test	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes(X.Y.Z).(a total of 9 times).	

2 . ENVIRONMENT TEST

No.	Item	Test Condition	Evaluation Standard
2.1	High Temp Test	After being placed in a chamber at 70℃ for 96 hours	After the test the part shall meet specifications with-out any Degradation in appearance and performance except SPL after 4 hours at 25℃. The value of oscillation frequency/ current consumption should ± 10% compared with initial ones.The SPL should be in ±10dB compared wit initial one.
2.2	Low Temp Test	After being placed in a chamber at -30℃ for 96 hours	
2.3	Temp Cycle Test	The part shall be subjected to 5 cycles.One cycle shall be consist of 	

3 . RELIABILITY TEST

No.	Item	Test Condition	Evaluation Standard
3.1	Operating life test	1.Continous life test The part shall be subjected to 48 hours at 40℃ with Rated Voltage applied. 2.Intermittent life test A duty cycle of 1 minute on.1 minute off,a minimum of 5000 times at room temp.(25±10℃) with Rated Voltage applied.	After the test the part shall meet specifications with-out any Degradation in appearance and performance except SPL after 4 hours at 25℃. The value of oscillation frequency/current consumption should ± 10% compared with initial ones. The SPL should be in ±10dB compared wit initial one.

ENGINEERING BILL OF MATERIAL

No.	PART NAME	MATERIAL	QT'Y
1	Molded Case	PPO+Glass Fiber	1
2	Sheet Metal	Ni-Alloy Plate	1
3	Piezoelectric Ceramics	Lead Zirconate Titanate	1
4	Solder	Free Solder Wire	1
5	Pin	Brass	2

TEST CONDITION.

Standard Test Condition ：

a)Temperature:+5~35℃

b)Humidity:45~85%

c)Pressure:860~1060 mbar

Judgement Test Condition：

a)Temperature:25±2℃

b)Humidity:60~70%

c)Pressure:860~1060 mbar

NOTE: ALL DIMS ARE IN mm.

ECN#	DATE	SYM	REVISION RECORD	AUTH	BY

PROJECTION

SCALE N/A

TOLERANCE EXCEPT AS NOTED

DEC. INCHES N/A

DEC. MILLIMETERS ±0.5

ANG. N/A

RDI Research Develop Innovate

RDI, Inc. 333 North Bedford Road, Suite 135, Mount Kisco, NY 10549

TITLE: Piezo Buzzer / RoHS Complaint

DR.	DATE	REF.	SHEET
Tina	04/19/12	P/N: REP-2320-NL	2 OF 2

CK.	PRE-	DRAWING NO.	SIZE	REV.
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