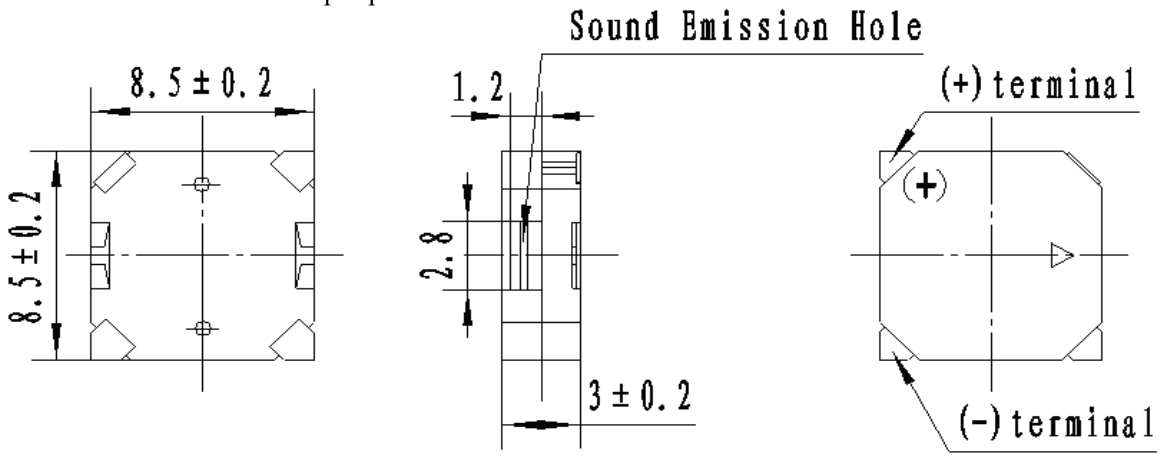
DWG. NO. BZ-2408-F REV. "D"

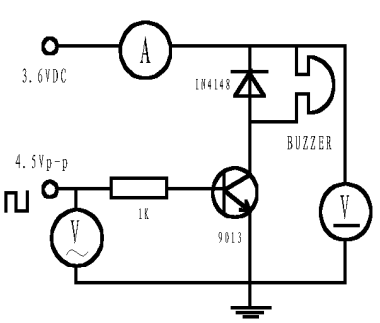
PART NO. DMT-8530-0X-NL

DIENSIONS (UNIT: mm)

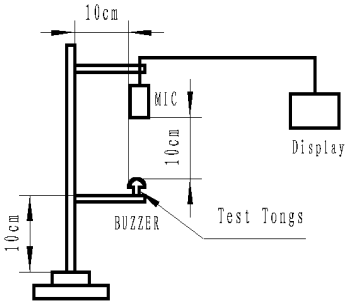
Tolerance: ±0.5mm Except Specified



TEST METHOD:

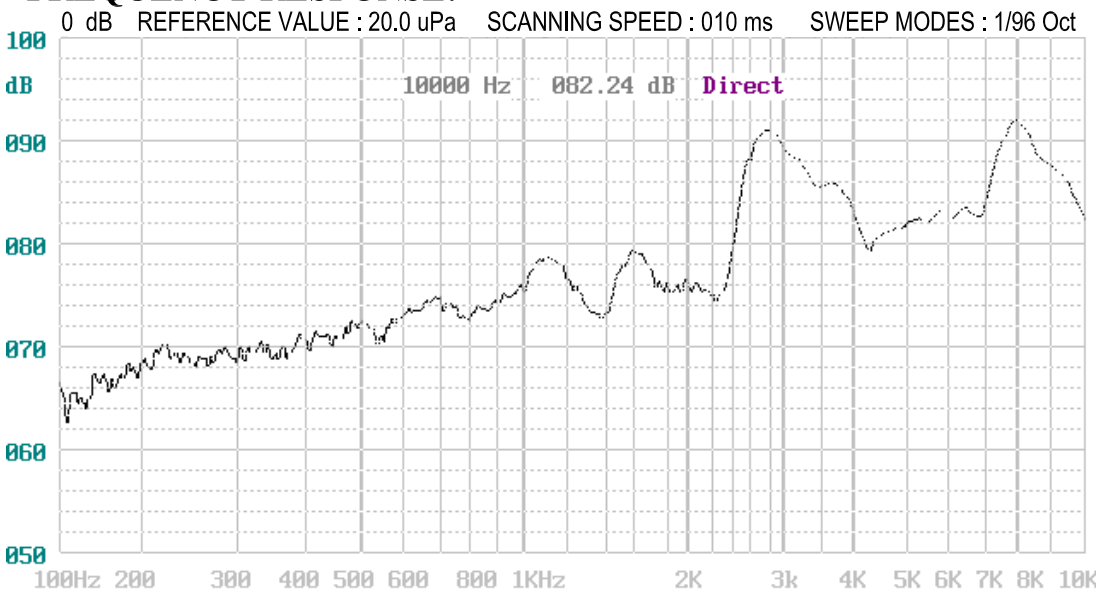


Test Circuit



Test Equips

FREQUENCY RESPONSE:



NO.	MODEL No.	DMT-8530-03-NL	DMT-8530-05-NL
1	RATED VOLTAGE(V)	3.6	5.0
2	OPERATING VOLTAGE(V)	2.5~4.5	3~7
3	COIL RESISTANCE(Ohm)	16± 3	32± 4
4	RESONANT FREQUENCY(Hz)	2700	2731
5	SOUND OUTPUT AT 10cm(dB)	≥85	≥85
6	*CURRENT CONSUMPTION(mA)	≤100	≤80
7	*OPERATING TEMPERATURE	-30~+70	-20~+70
8	STORAGE TEMPERATURE(°C)	-40~+85	-30~+80
9	WEIGHT(g)	0.5	0.5
10	CASE MATERIAL AND COLOUR	LCP/BLACK	LCP/BLACK

*APPLYING RATED VOLTAGE(RESONANT FREQUENCY 1/2 DUTY,SQUARE WAVE)

ECN#	DATE	SYM	REVISION RECORD	AUTH	BY
13-081	09/21/13	D	CHANGE THE VIEW AND ADD SPECIFICATIONS	MD	TL
07-470	10/13/07	C	ADDED 5V OPTIONS & REVISED THE P/N TO DMT-8530-0X-NL	CP	JY
07-010	01/03/07	B	ADDED THE PCB-LAYOUT	BM	JY
06-266	04/12/06	A	CHANGED THE PART TO RoHS COMPLIANT & ADDED ITEM# 10	VC	JY

PROJECTION

SCALE 2:1

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: BUZZER-RoHS COMPLIANT

DR.	DATE	REF.	SHEET
JIN	04/14/05	P/N: DMT-8530-0X-NL	1 OF 3

CK.	PRE-	DRAWING NO.	SIZE	REV.
LL	BZ	2408	F	D

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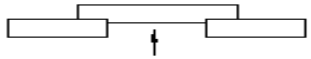
DWG. NO. BZ-2408-F REV. "D"

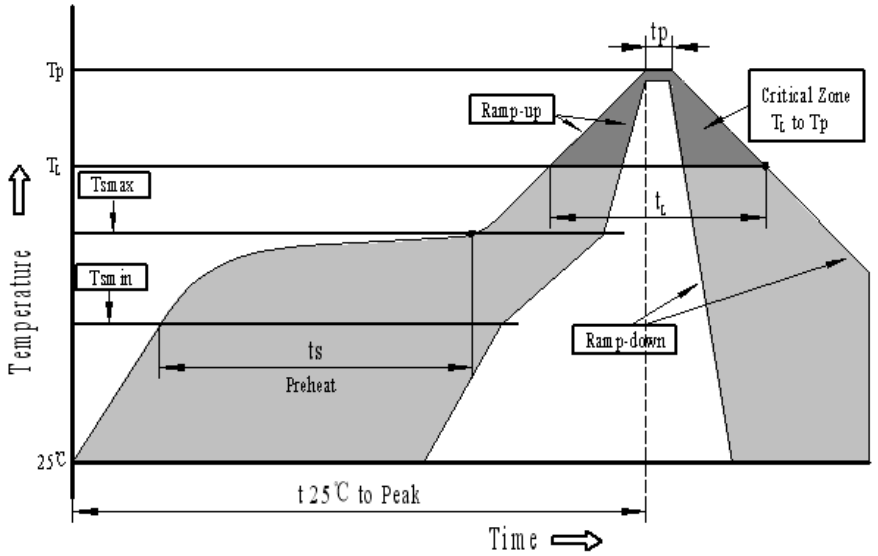
PART NO. DMT-8530-0X-NL

RELIABLY TEST:

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	High temp. storage life	The part shall be capable of withstanding a storage temperature is +80℃ for 120 hours.	After the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be initial value±10dB or more
2	Low temp. storage life	The part shall be capable of withstanding a storage temperature is -30℃ for 120 hours	
3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of -30±2℃, 30 minutes 20±5℃ 15 minutes 80±2℃, 30 minutes 20±5℃ 15 minutes	
4	Humidity Test	30±2℃, 90～95% RH, 120 hours	
5	Vibration Test	The part shall be subjected to a vibration cycle is 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm(9.3g). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.	
6	Shock	Sounder shall be measured after being applied shock (980m/s²) for each three mutually perpendicular directions to each of 3 times by half sine wave.	
7	Drop Test	Dropped naturally from 700mm height onto the surface of 10mm thick wooden board. 2 directions-upper and side of the part are to be applied.	
8	Lead pull	The part shall be pushed with a force of 9.8N for 10±1 seconds behind the part. 	After the test part shall meet specifications without any degradation in appearance and performance.
9	Recommended temp. Profile for Reflow Oven	Shown in Fig.1	

Warranty : For a period of one year from date of manufcture under normal operations.

Recommended Temp. Profile for Reflow Oven (Fig.1)



Profile Feature	Pb-Free Assembly
Average ramp-up rate(TL to Tp)	3℃/second max.
Preheat	
-Temperature Min.(Tsmin)	150℃
-Temperature Min.(Tsmax)	200℃
-Temperature Min.(ts)	60～180 seconds
Ts-max to TL	
-Ramp-up Rate	3℃/second max.
Time maintained above:	
- Temperature(TL)	217℃
-Time(TL)	60～150 seconds
Peak temperature(Tp)	250℃+0/-5℃
Time within 5℃of actual Peak temperature (tp)	6 seconds max.
Ramp-down Rate	6℃/second max.
Time 25℃ to Peak Temperature	8 minutes max.

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PROJECTION

SCALE 2:1

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DEC. MILLIMETERS ±0.5

ANG. N/A

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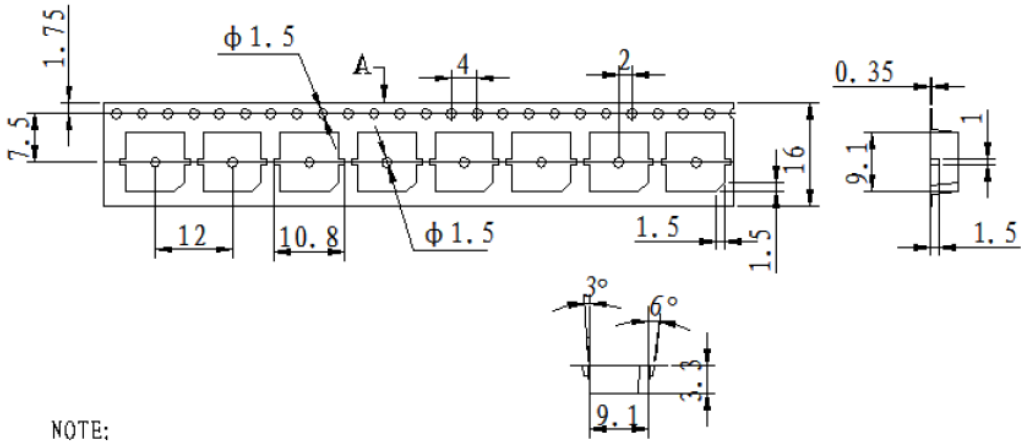
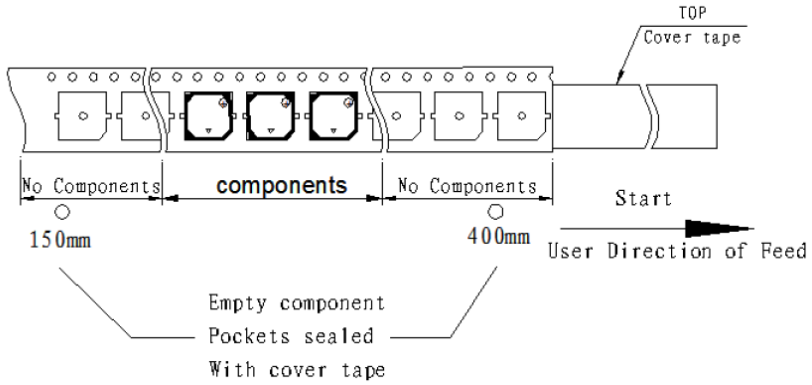
DWG. NO. BZ-2408-F REV. "D"

PART NO. DMT-8530-0X-NL

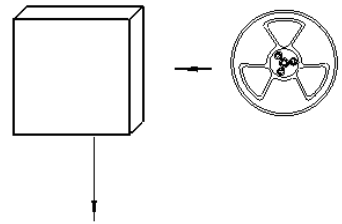
PACKING:

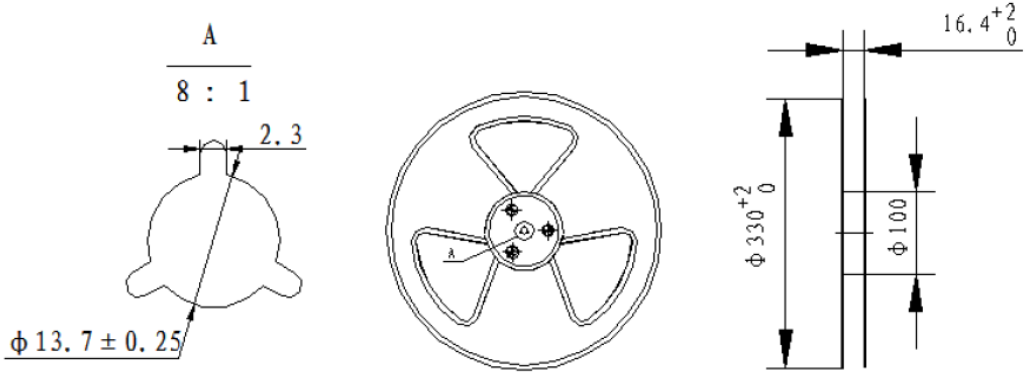


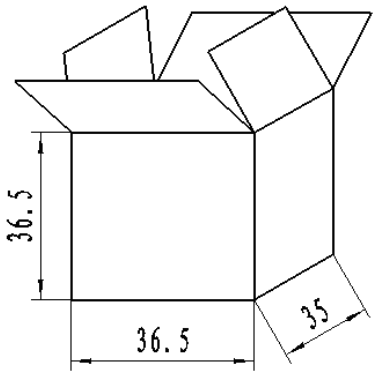


NOTE:

1. 10 sprocket hole pitch cumulative tolerance +/-0.20mm.
2. All dimensions meet EIA-481-D requirements.
3. Thickness: 0.35+/-0.05mm.
4. Component loaded per 13"reel: 1000pcs.







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