

DATE	28.12.07	SPECIFICATION	BOSAN HI-TECH CO., LTD.
MODEL NO	BST-0843A		BEST QUALITY, SPECIALIZED SERVICE
PAGE	1/9		HI-TECH PRODUCTS



BOSAN HITECH CO., LTD

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Specification Sheet

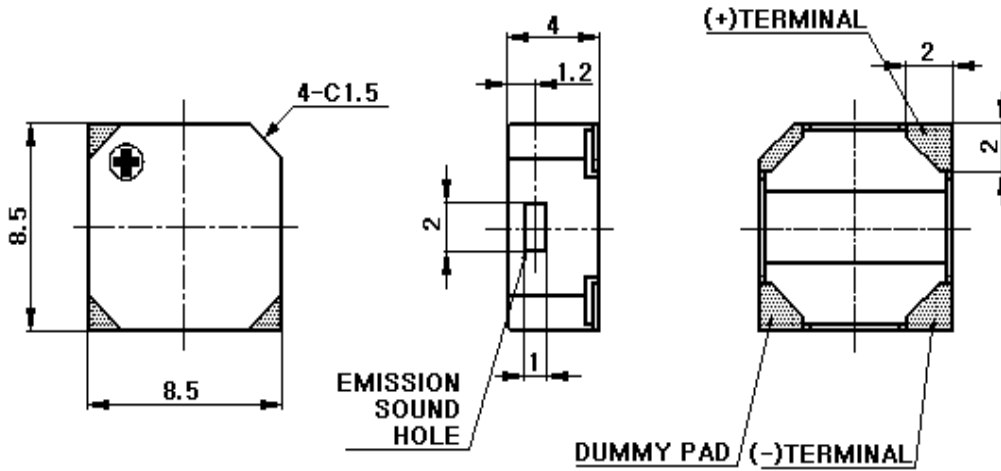
(MODEL : BST-0843A)

<Non Washable Type>

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1. DIMENSION



UNIT : mm
TOLERANCE : ± 0.3
HOUSING MATERIAL : LCP

C H A N G E						
	NO	DATE	BEFORE	AFTER	REASON OF CHANGE	SIGN

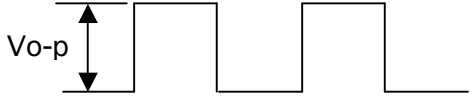
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2. SCOPE

THIS SPECIFICATION IS APPLIED TO THE DYNAMIC MAGNET TRANSDUCER ASSEMBLY WHICH IS USED AS ALERT IN A CELLULAR PORTABLE PRODUCTS.

3. ELECTRICAL SPECIFICATIONS

ALL DATA AT 25 °C, HUMIDITY 40% ~ 80% UNLESS OTHERWISE SPECIFIED.

ITEMS	SPECIFICATIONS	CONDITIONS
RATED VOLTAGE	3.6 Vo-p	
OPERATING VOLTAGE	2.5V ~ 4.0Vo-p	
RATED CURRENT	MAX 100mA	
COIL RESISTANCE	16ohm +/- 3	
SOUND PRESSURE LEVEL (AT 10cm)	min 88dBA	* f=2,700Hz, Vo-p=3.6Vdc *1/2 DUTY SQUARE WAVE
RATED FREQUENCY	2,700Hz	
OPERATING TEMP.	-30 °C ~ +70 °C	
STORAGE TEMP.	-40 °C ~ +85 °C	

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4. RELIABILITY

<p>TEMPERATURE CHARACTERISTICS</p> <p>#. All data taken at -30°C and +85°C will be referenced to initial data taken at +25°C. #. Component must be fully stabilized at temperature extremes before data taken, which may require up to a 4 hour soak.</p>
<p>STATIC HUMIDITY</p> <p>#. Precondition at 25°C for 60 minutes. After 72 hours at 40°C with 90% to 95% relative humidity, allow to dry at room ambient for 4 hours.</p>
<p>VIBRATION (RANDOM)</p> <p>#. To vibrate randomly at 6 g's or 0.04 g /Hz power spectral density from 10 to 2000 Hz for 15 minutes per plane or #. Sinusoidal vibration 10 to 60 Hz, 0.06" double amplitude or 15 g's whichever is less for 1/2 hour per plane X,Y,Z.</p>
<p>OPERATING LIFE</p> <p>#. To subject samples to 85°C at 85% RH for 168Hr at full rated power.</p>
<p>COMPONENT SHEAR TEST</p> <p>#. To subject sample on PC Board to a tensile pull strength of 1Kg force for 30 seconds.</p>
<p>DROP TEST</p> <p>#. While assembled in a dummy case, 5 free falls onto a concrete floor from a height of 100cm.</p>

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5. Environmental Information

This product meets ROHS standard and information of every parts below can be subjected.
 -. ICP-AES analysis data
 -. MSDS data

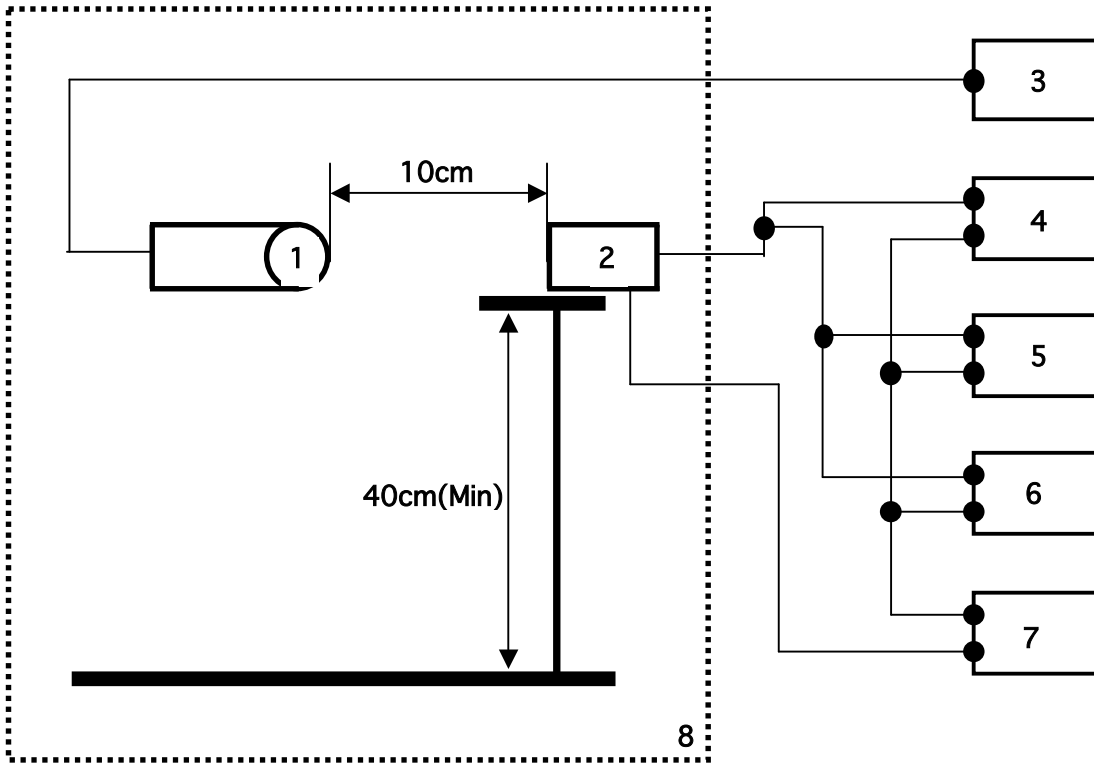
Type	Substances / Material	ppm(amount)	
Class I	Cadmium and compounds	3.7	
	Lead and compounds	477	
	Mercury and compounds	Not detected	
	Chrom(VI) and compounds	Not detected	
	Polybrominated biphenyls (PBBs)	Not detected	
	Polybrominated diphenylethers(PBDEs)	Not detected	
Class II	Polychlorinated biphenyls (PCBs)	Not detected	
	Polychlorinated Terphenyls (PCTs)	Not detected	
	Polychlorinated naphthalences (PCNs)	Not detected	
	Ozone depleting substances(CFCs, HCFCs, Halons)	Not detected	
	Asbestos and compounds	Not detected	
	Formaldehydes	Not detected	
	Short-chain chlorinated paraffins (Alkane 10 ~ 13 Carbon chain)	Not detected	
	Azo colorants	Not detected	
	Nickel and compounds	Not detected	
	Organic tin compounds	Not detected	
	Arsenic and compounds	Not detected	
	Class III	Phthalates	Not detected
		PVC	Not detected
Beryllium and compounds		Not detected	
Other Chlorinated flame retardants		Not detected	
Other Chlorinated flame retardants (TBBP-A)		Not detected	

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6. ELECTRICAL CHARACTERISTICS MEASUREMENT

1) SETTING UP OF MEASURING SYSTEM

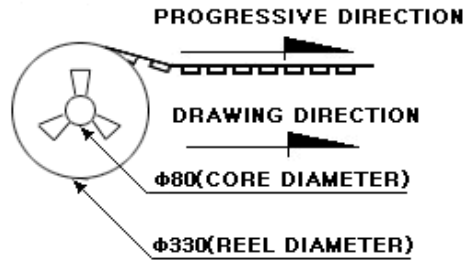
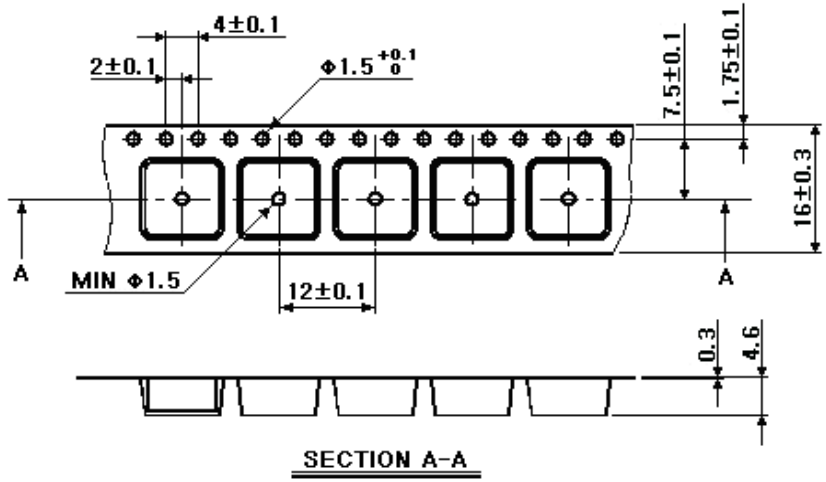


NO	EQUIPMENT	REMARKS
1	CONDENSER MIC.	
2	DEVICE UNDER TEST	MAGNETIC BUZZER
3	F.F.T, OR S.P.L INDICATOR	
4	OSCILLATOR	
5	FREQUENCY COUNTER	
6	VOLTAGE METER	
7	AMPERE METER	
8	SOUND PROOF ROOM	

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7. PACKING FORMAT



REMARK

1. Each corner without specification is max R0.25.
2. Emboss carrier tape is as per JIS C0806 standard.
3. Diameter of reel is φ330mm and core is φ80mm.
4. Quantity packed in a reel : 1,000pcs

CHANGE						
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8. SOLDERING CONDITION

1) REFLOW SOLDERING

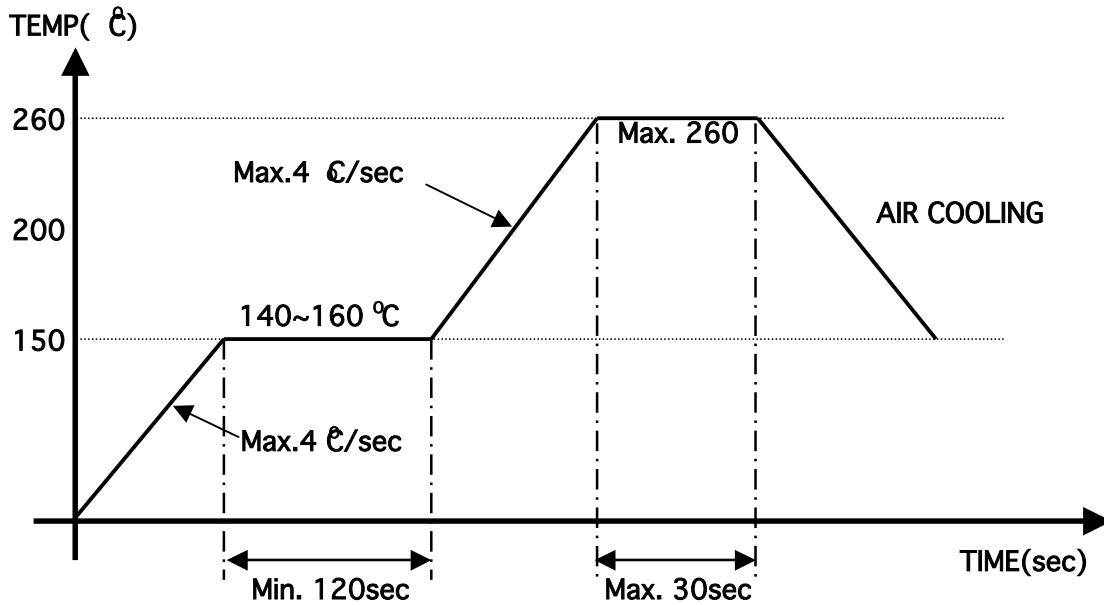
RECOMMENDABLE REFLOW SOLDERING CONDITION IS AS FOLLOWS.

#. REFLOW SOLDERING IS TWO TIMES

1-1 : IT IS REQUESTED THAT 2ND REFLOW SOLDERING SHOULD BE EXECUTED AFTER THE TEMPERATURE OF PRODUCT GOES DOWN TO NORMAL TEMPERATURE

1-2 : MAXIMUM REFLOW TEMPERATURE IS 240°C WITH MAXIMUM DURATION OF 45 SECONDS BETWEEN 200°C AND 240°C.

#. TEMPERATURE PROFILE(C) °



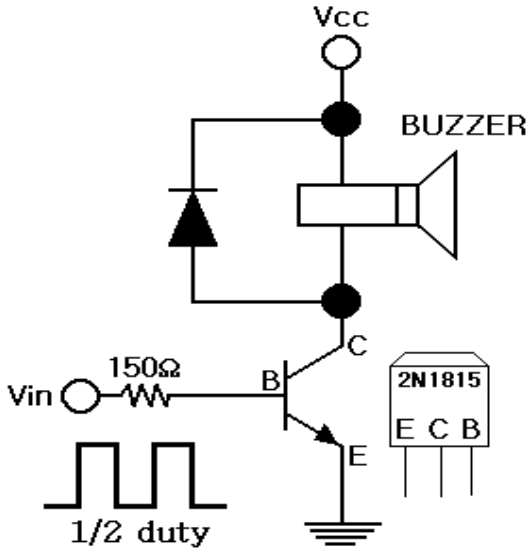
2) MANUAL SOLDERING

THE TEMPERATURE OF SOLDERING IRON : 350°C WITHIN 10 SECONDS.

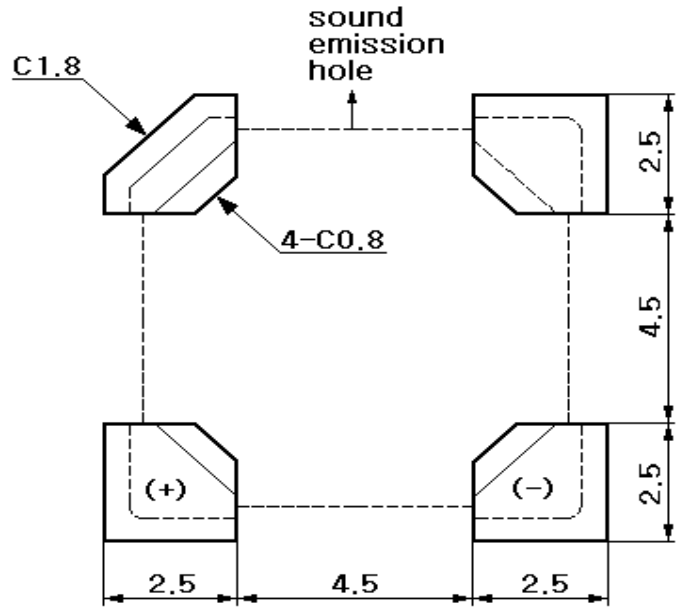
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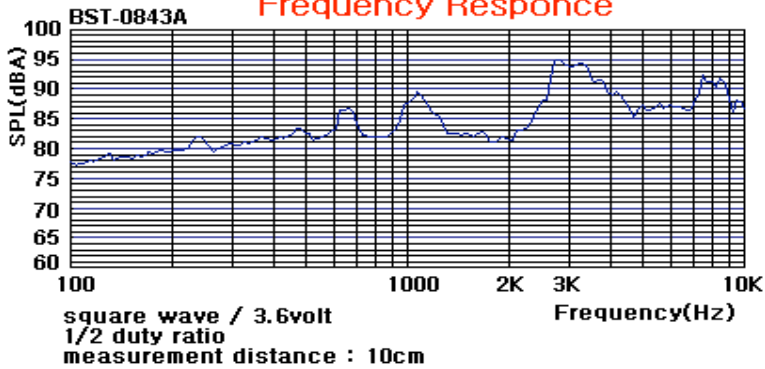
<Standard Drive Circuit>



<Recommended foot print layout>



Frequency Responce



C H A N G E						
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