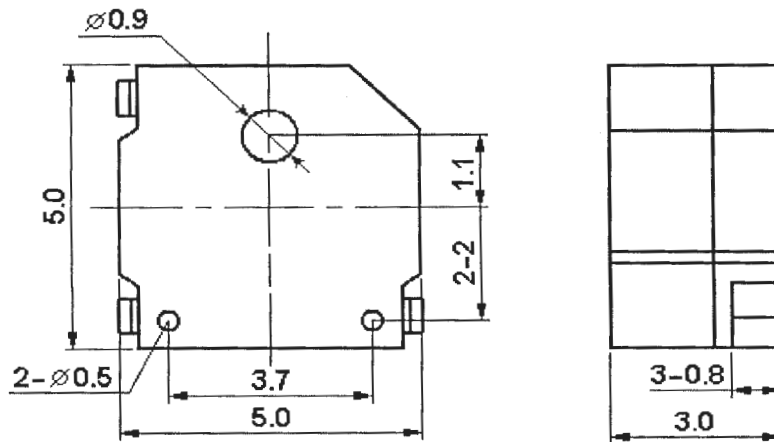


INTERVOX
Electro Acoustic SMT Transducer
BST0503SM-03-B

Features

Ultra compact SMT magnetic transducer
 High Quality
 Clear Sound

◆ **DIAGRAM**

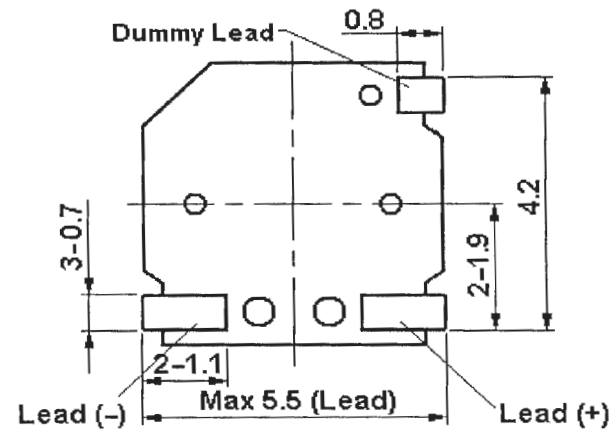


Unit: mm Tolerance: ± 0.2 mm

SPECIFICATIONS:

TYPE	BST0503SM-03-B
Rated Voltage (Vp-p)	3.0
Operating Voltage (Vp-p)	2 ~ 5
• Rated Current (mA)	Max. 100
Coil Resistance (Ohm)	12 \pm 2
• Sound Output @ 10 cm (dB)	Min. 78 (typical 84)
Resonant Frequency (Hz)	4000
Operating Temperature (°C)	-40 to +85
Storage Temperature (°C)	-40 to +85
Housing Material	LCP
Weight (g)	0.3

• Value applying rated voltage and frequency (1/2 duty, square wave)



INTERVOX
International ©
 International Components Corporation

Title:

SMT Electro Acoustic Transducer

Code:

G82

Intervox Model #

BST0503SM-03-B

Rev.

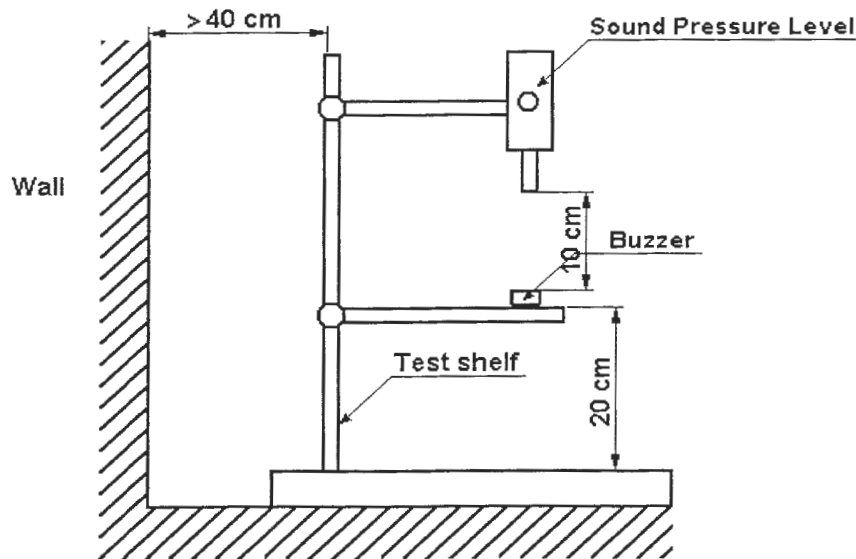
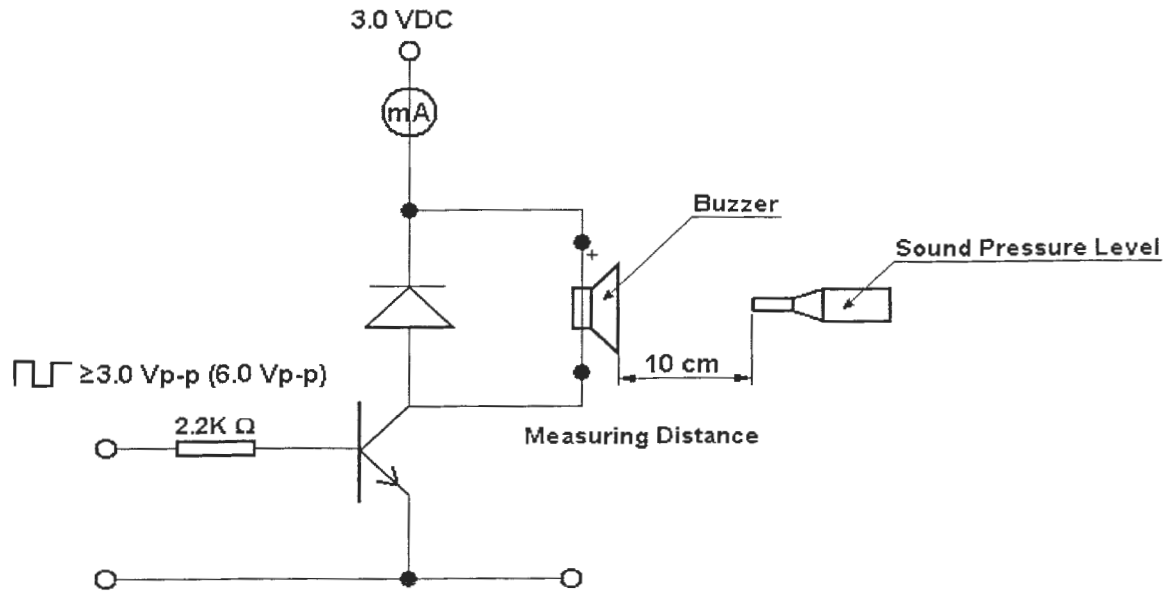
Unit: mm

Date:

1/26/2008

Sheet 1 of 6

2. MEASURING METHOD



INTERVOX
International ©

INTERNATIONAL COMPONENTS CORPORATION
215 MCCORMICK DRIVE, BOHEMIA, NY 11716
FAX: 631-952-9595 FAX: 631-952-9597

Title:

SMT Electro Acoustic Transducer

Code:

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Intervox Model #

BST0503SM-03-B

Rev.

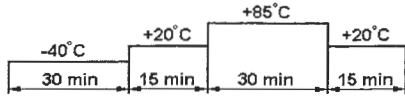
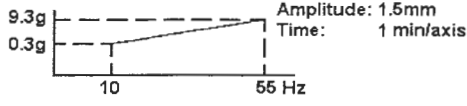
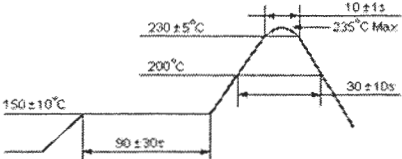
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Unit: mm

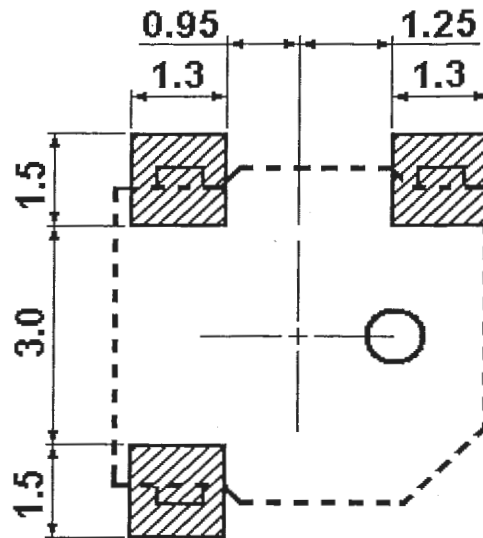
Date: 1/26/2008

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3. RELIABILITY TEST

Item	Method of test	Standard
1	Storage in High Temperature Storage at $+85^{\circ} \pm 2^{\circ}\text{C}$ test box for 240 hours, then expose to room temperature for 2 hours without applying power.	After test, the value of frequency/current/SPL should be within specifications.
2	Storage in Low Temperature Storage at $-40^{\circ} \pm 2^{\circ}\text{C}$ test box for 240 hours, then expose to room temperature for 2 hours without applying power.	
3	Storage in Humidity Storage at $+40^{\circ} \pm 2^{\circ}\text{C}$ 90~95% RH test box for 48 hours, then expose to room temperature for 2 hours without applying power.	
4	Temperature Cycle Test  Make this test for 5 cycles without applying power, then expose to room temperature for 2 hours.	
5	Vibration Test  Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).	
6	Drop Test Drop from the height of 100 cm to the surface of 100mm thick wooden board, three directions (X, Y, Z).	± 5 dB
7	Solderability Test  Soldering temperature: $235 \pm 5^{\circ}\text{C}$ Heat applying time: 3 ± 0.5 sec.	90% min. lead terminals shall be wet with solder.
8	Lead Pin Strength Pulling The force 10 seconds of 9.8N is applied to each lead pin in axial direction.	No damage and cutting off.

4. SMD REFLOW PATTERN



Title:

SMT Electro Acoustic Transducer

Code:

G82

Intervox Model #

BST0503SM-03-B

Rev.

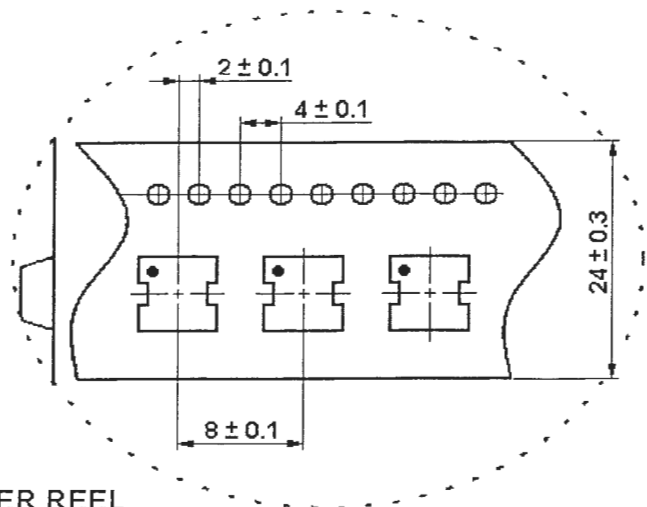
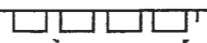
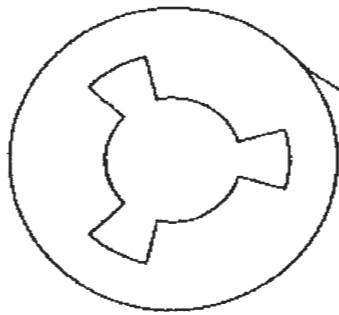
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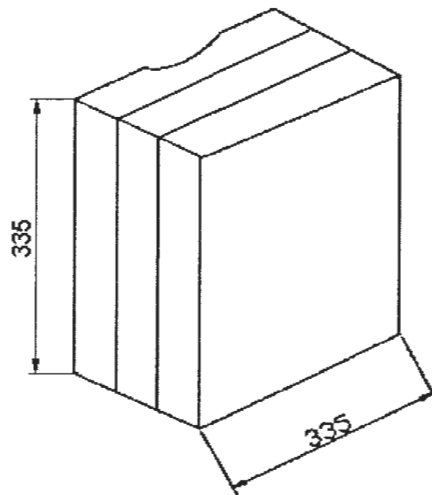
Date: 1/26/2008

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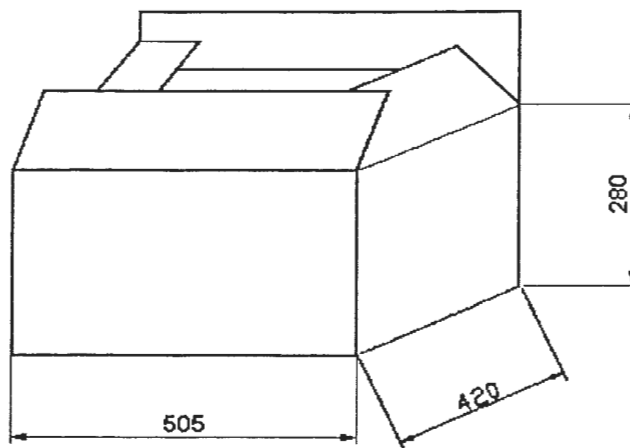
5. PACKING



2000 PCS / CARRIER REEL



5 ROLLS CARRIER REEL / INNER BOX

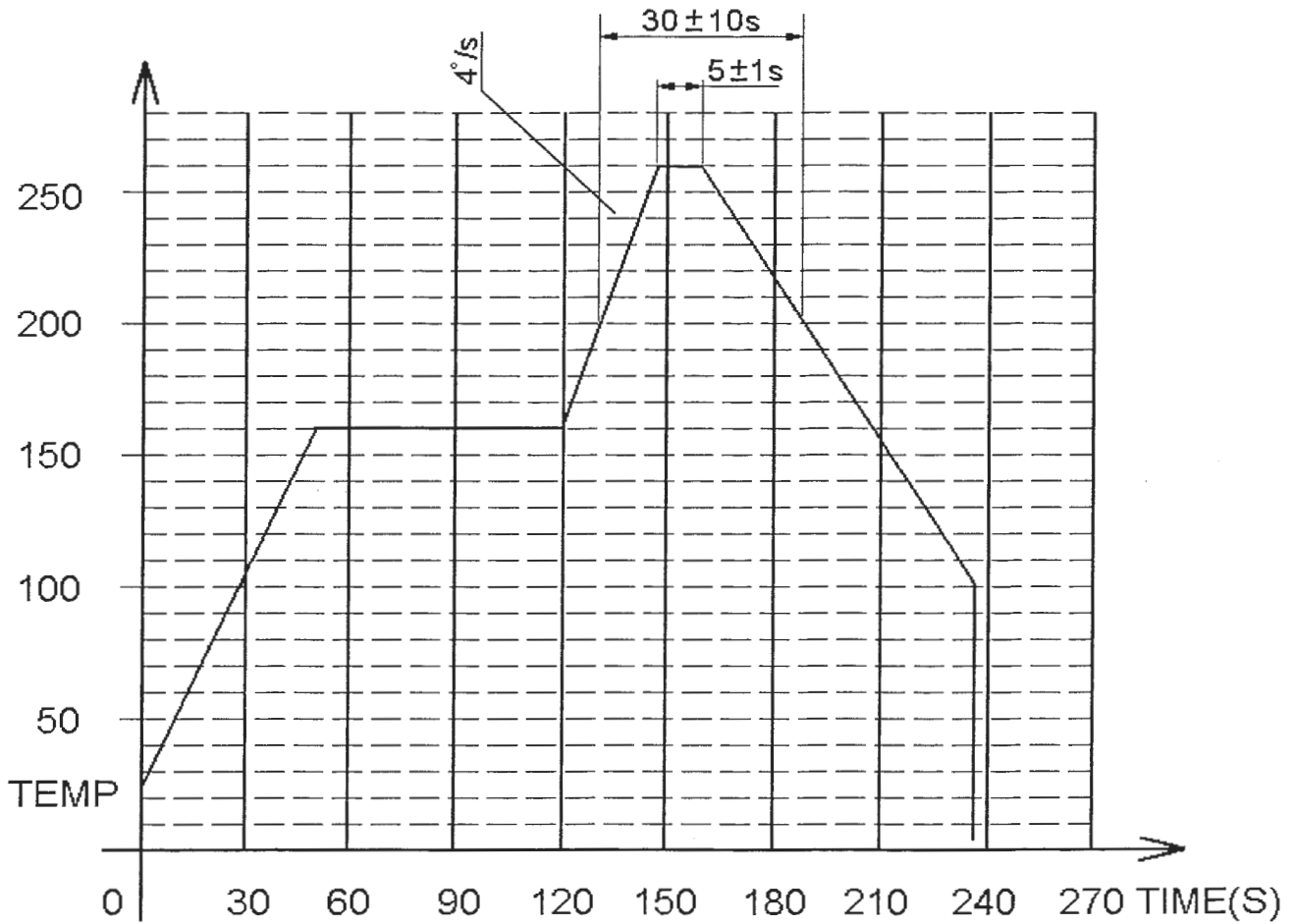


20000 PCS / CARTON



Title:			SMT Electro Acoustic Transducer		
Code:	Intervox Model #	Rev.			
G82	BST0503SM-03-B	A			
Unit: mm	Date:	1/26/2008	Sheet 5 of 6		

6. Reflow Solder Conditions



Title:

SMT Electro Acoustic Transducer

Code:

G82

Intervox Model #

BST0503SM-03-B

Rev.

A

Unit: mm

Date: 1/26/2008

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