



**2016**

# **BOSAN HITECH CATALOGUE**

## **Focus and Concentration**

we focus on product with most common use in the market and concentrate to satisfy customer's requirements.

GREETINGS

Thank you for your interest on us and hope everything is going great with you and your business.

Bosan Hitech is a Korea based manufacturer whose major product is SMD magnetic transducer, which is essential in generating audible feedback or alarm for small electronic devices.

It is a common sense for a manufacturing site of this product to be located in countries with low labor cost like China, Vietnam or even Cambodia. Instead of moving manufacturing facility to those direction, Bosan has been concentrating on automated manufacturing facilities for 7 years and finally accomplished 100% unmanned manufacturing production line, for the first time in this industry.

By this improvement we were able to successfully supply 80 million transducers to Apple Inc. and 30M pcs to Samsung LCD TVs. And the supply is going on as of this moment. Our customers from all over the world are inquiring for repeat orders with great satisfaction.

And we would like to provide our service and skills to more customers all over the world. Please choose any product on this catalogue and ask for free samples. We will provide the finest parts with competitiveness comparing any other supplier in the world.

Best regards,  
BH Kim / president

HISTORY

2013	participating CES 2013 : USA
2012	Participating GITEX 2012 : Dubai Beginning of producing BST-08 series Participating HK Electronic Show Spring edition Participating China Sourcing Fair : Shanghai
2011	Beginning supply for Philishave Component approval by Philips Development of production line for BST-08 series.
2010	Development of BST-08 series
2009	ISO/KSA 9001 : 2008 certification
2007	Beginning supply for Vestel LCD TV  Beginning supply for iPod Classic Beginning supply for Samsung LCD TV
2006	Beginning supply for iPod 5.5G
2005	Beginning supply for iPod 5G Component approval by Apple Inc. Development of BST-5523SA(5x5x2mm) Factory movement to Incheon Beginning supply for iRiver H10



Component approval by Samsung Electronics	2004
Beginning supply for iPod Mini & iPod 4G ISO/KSA 9001 : 2002 certification Component approval by Apple Computer Development of BST-5533S(5x5x3mm)	2003
Beginning supply for iPod	2002
Registering as a Venture Enterprise	2001
Registering practical new device(#0190932)	2000
ISO/KSA 9001 : 1998 certification Japanese patent acquirement (#3061445) Establish corporate as Bosan Hitech Co., Ltd.	1999
Patent acquirement(#4624, 29815, 57997)	1998
Establishment in Bucheon, Republic of Korea	1997

MAJOR CUSTOMERS

STRONG POINTS

About Bosan

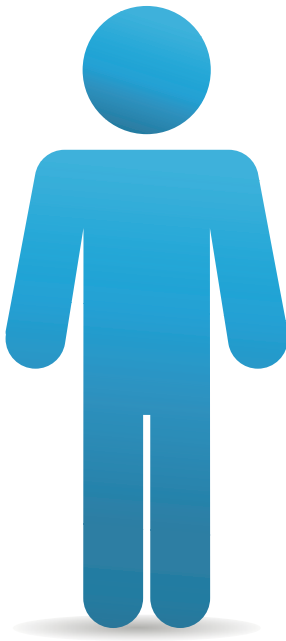
Company name	Bosan Hitech Co., Ltd.
Type of business	Manufacturer, Corporate
Main item	SMD magnetic transducers
Factory Location	Incheon, Republic of Korea
Establishment	Jan 1997
Employees	Office(10), QC(8), Production(12)
Monthly Capacity	5M
Certification	ISO9001 : 2012

Main Customers



Unmanned production

we need 1/8 number of labours in production, comparing to competitors. Considering labour cost difference between Korea and China, this makes us more profitable and this advantage will be used for customer’s satisfaction by cost, quality, delivery and others.



KOREA



VS

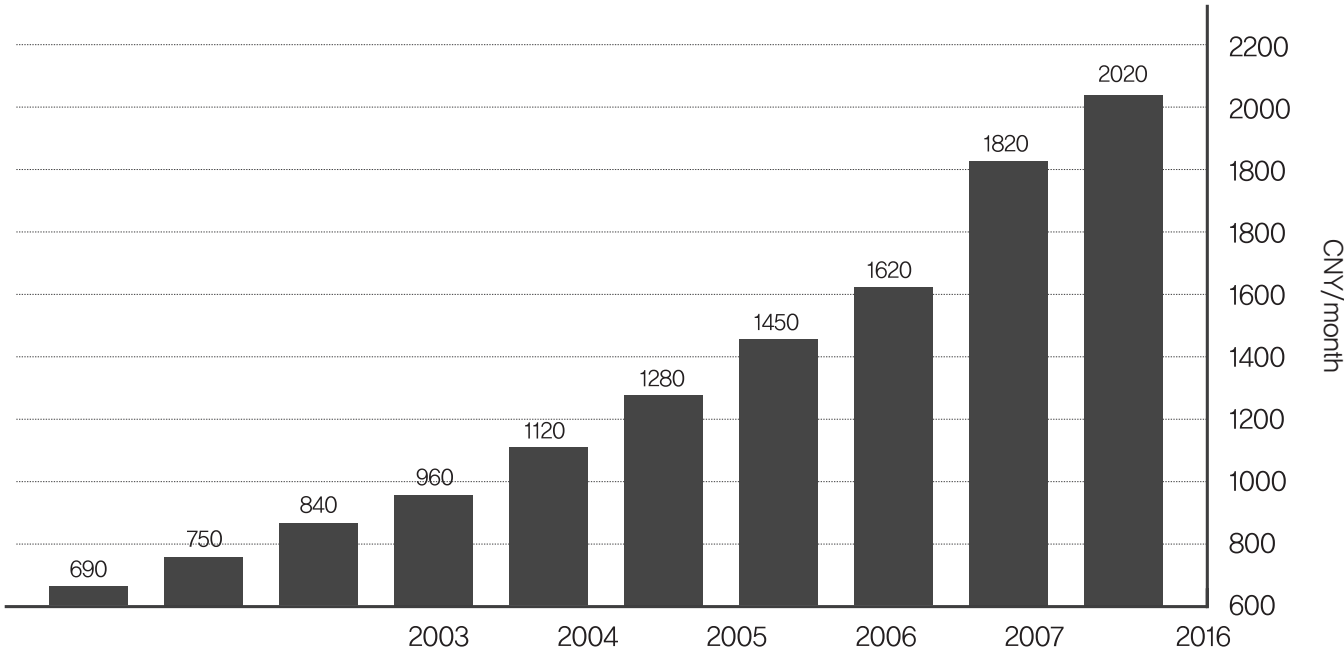
CHINA

STRONG POINTS

No future trouble because of wage increase

Production labour cost takes very low portion in Bosanhitech. This fact ensures that there will be less chance to annoy customers by forcing price to rise without prior notice.

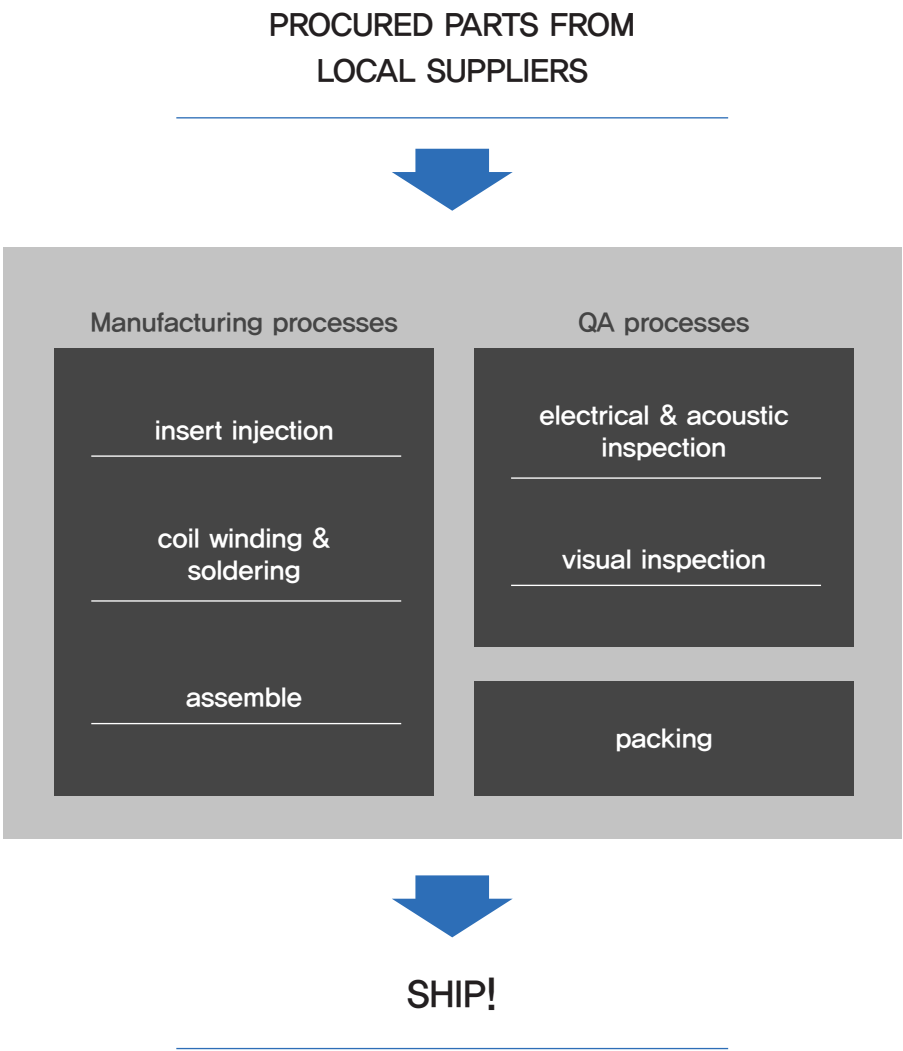
CHINA MINIMUM MONTHLY WAGES



STRONG POINTS

Swiftness

Whole manufacturing processes are done in one factory in Korea. Not working with any OEM nor outsourced manufacturers, we are swift in responses and delivery.



No	Facility Name	Monthly Yield	Quantity
1	auto injection machine	850k	6
2	auto assembly machine	850k	6
3	auto winding machine	1,300k	4
4	auto packing machine	1,000k	1
5	manual packing machine	1,000k	4
6	dispenser	—	4
7	IR reflow	—	2
8	cooling conveyor	—	2
9	foaming machine	—	2
10	magnetizer	—	5
11	de-magnetizer	—	1

Overview



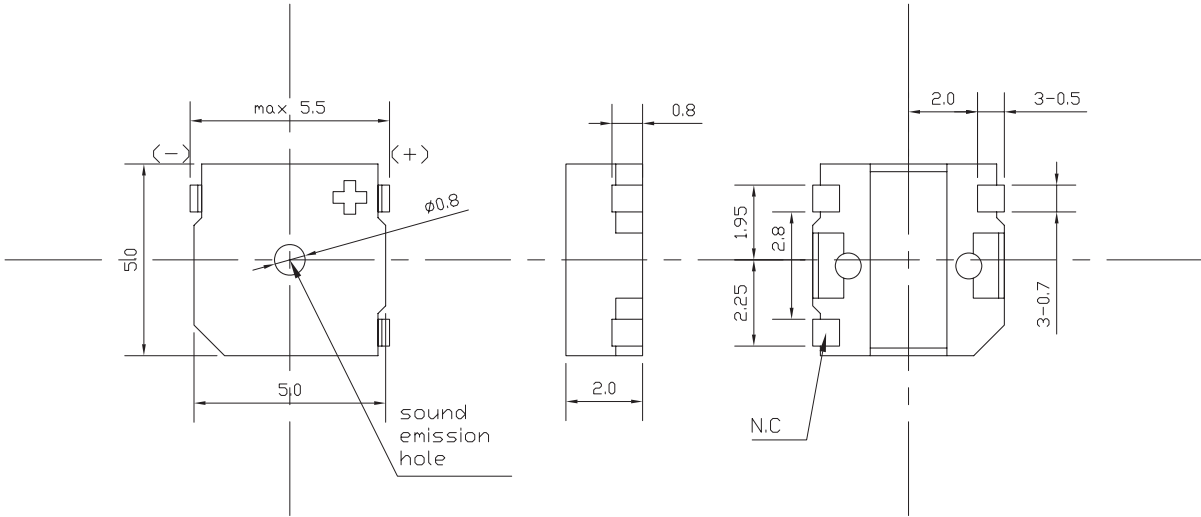
BST-5523SA

Dimension	5.0 x 5.0 x 2.0 (mm)
AC Voltage	3.0 V
Freq. (Hz)	4,000
SPL (10cm)	min 78 dB

Specifications

PARAMETERS	SPECIFICATIONS	UNIT
Rated voltage	3.0	Vo-p
Operating voltage	2.0 ~ 4.0	Vo-p
Current consumption	max 100	mA
Coil DC resistance	12 ± 3	Ω
Operating frequency *	10 ~ 10,000	Hz
Rated frequency	4,000	Hz
Sound pressure level **	Min. 78	dBA
Operating temperature	-30 ~ +70	℃
Storage temperature	-40 ~ +85	℃

Drawings



SMD MAGNETIC  
TRANSDUCER

Overview



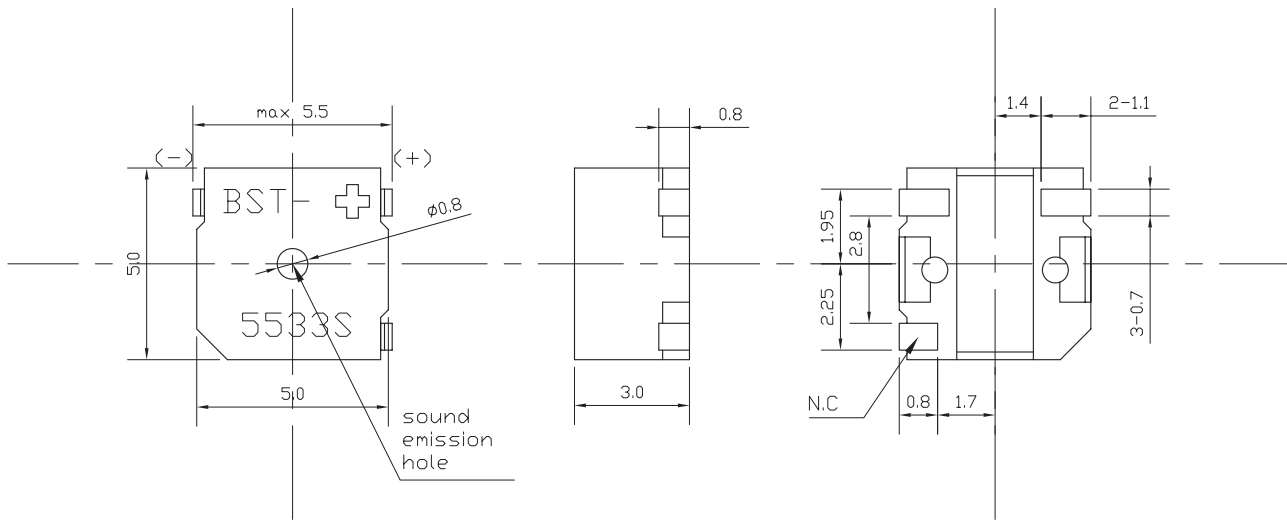
BST-5533S

Dimension	5.0 x 5.0 x 3.0 (mm)
AC Voltage	3.0 V
Freq. (Hz)	4,000
SPL (10cm)	min 78 dB

Specifications

PARAMETERS	SPECIFICATIONS	UNIT
Rated voltage	3.0	Vo-p
Operating voltage	2.0 ~ 4.0	Vo-p
Current consumption	max 100	mA
Coil DC resistance	12 ± 3	Ω
Operating frequency *	10 ~ 10,000	Hz
Rated frequency	4,000	Hz
Sound pressure level **	Min. 78	dBA
Operating temperature	-30 ~ +70	°C
Storage temperature	-40 ~ +85	°C

Drawings



SMD MAGNETIC  
TRANSDUCER

Overview



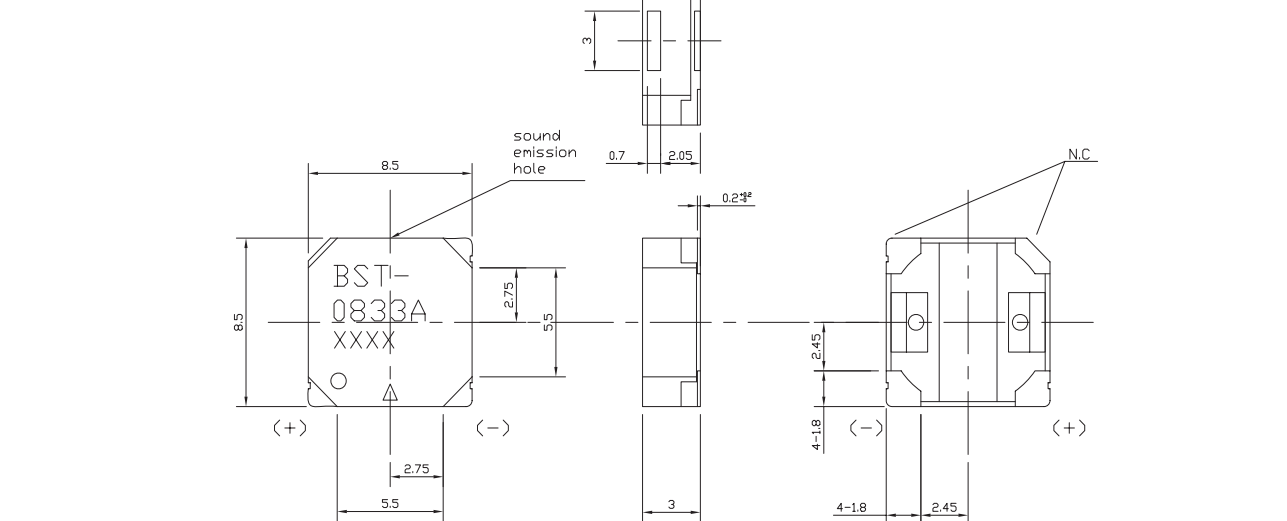
BST-0833A

Dimension	8.5 x 8.5 x 3.0 (mm)
AC Voltage	3.6 V
Freq. (Hz)	2,700
SPL (10cm)	min 85 dB

Specifications

PARAMETERS	SPECIFICATIONS		UNIT
	BST-0833A	BST-0835A	
Rated voltage	3.6	5.0	Vo-p
Operating voltage	2.5 ~ 4.5		Vo-p
Current consumption	max 100		mA
Coil DC resistance	16 ± 3		Ω
Operating frequency *	10 ~ 10,000		Hz
Rated frequency	2,700		Hz
Sound pressure level **	Min. 85		dBA
Operating temperature	-30 ~ +70		°C
Storage temperature	-40 ~ +85		°C

Drawings





SMD MAGNETIC  
TRANSDUCER

Overview



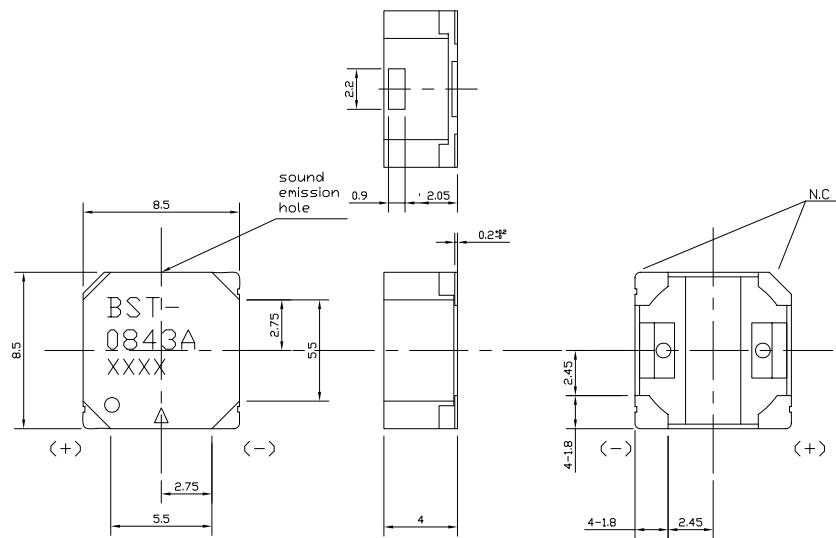
BST-0843A

Dimension	8.5 x 8.5 x 4.0 (mm)
AC Voltage	3.6 V
Freq. (Hz)	2,700
SPL (10cm)	min 85 dB

Specifications

PARAMETERS	SPECIFICATIONS		UNIT
	BST-0843A	BST-0845A	
Rated voltage	3.6	5.0	Vo-p
Operating voltage	2.5 ~ 4.5		Vo-p
Current consumption	max 100		mA
Coil DC resistance	16 ± 3		Ω
Operating frequency *	10 ~ 10,000		Hz
Rated frequency	2,700		Hz
Sound pressure level **	Min. 85		dBA
Operating temperature	-30 ~ +70		°C
Storage temperature	-40 ~ +85		°C

Drawings



SMD MAGNETIC  
TRANSDUCER

Overview



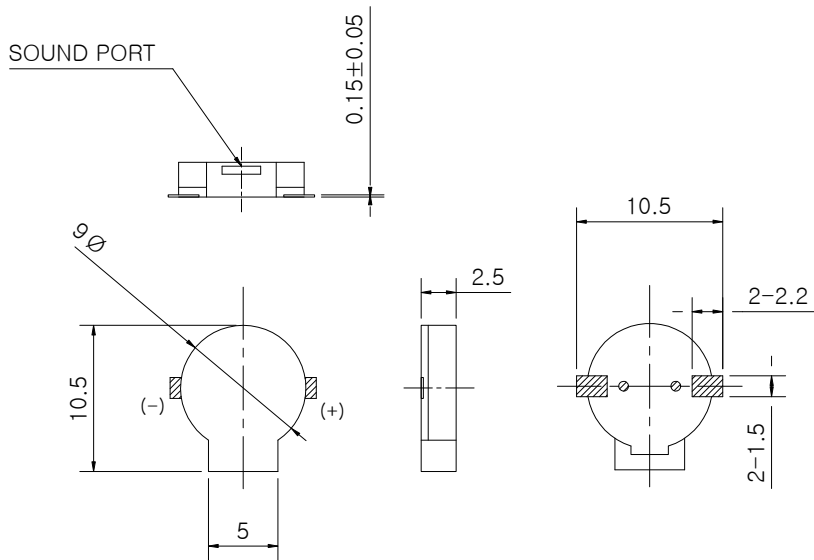
BSMT-9025S-3027

Dimension	9.0 x 10.5 x 2.5 (mm)
AC Voltage	3.0 V
Freq. (Hz)	2,700
SPL (10cm)	min 82 dB

Specifications

PARAMETERS	SPECIFICATIONS	UNIT
Rated voltage	3.0	Vo-p
Operating voltage	2.0 ~ 4.0	Vo-p
Current consumption	max 70	mA
Coil DC resistance	16 ± 3	Ω
Operating frequency *	10 ~ 10,000	Hz
Rated frequency	2,700	Hz
Sound pressure level **	Min. 82	dBA
Operating temperature	-20 ~ +70	°C
Storage temperature	-40 ~ +85	°C

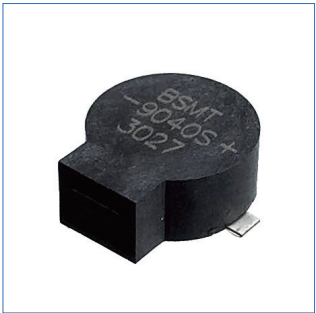
Drawings



SMD MAGNETIC  
TRANSDUCER

SMD PIEZO  
TRANSDUCERS

Overview



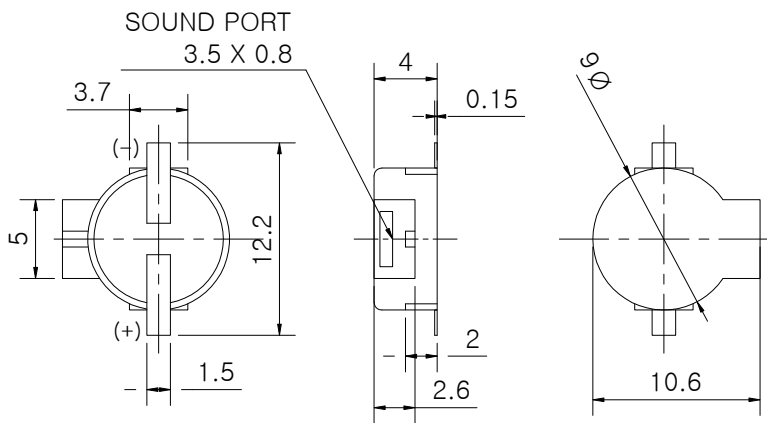
BSMT-9040S-3027

Dimension	9.0 x 10,6 x 4.0 (mm)
AC Voltage	3.0 V
Freq. (Hz)	2,700
SPL (10cm)	min 90 dB

Specifications

PARAMETERS	SPECIFICATIONS	UNIT
Rated voltage	3.0	Vo-p
Operating voltage	2.0 ~ 4.0	Vo-p
Current consumption	max 70	mA
Coil DC resistance	16 ± 3	Ω
Operating frequency *	10 ~ 10,000	Hz
Rated frequency	2,700	Hz
Sound pressure level **	Min. 87	dBA
Operating temperature	-20 ~ +70	°C
Storage temperature	-30 ~ +80	°C

Drawings



- UNIT : MM  
- TOLERANCE : ±0.3 UNLESS SPECIFIED  
- HOUSING MATERIAL : LCP

Overview



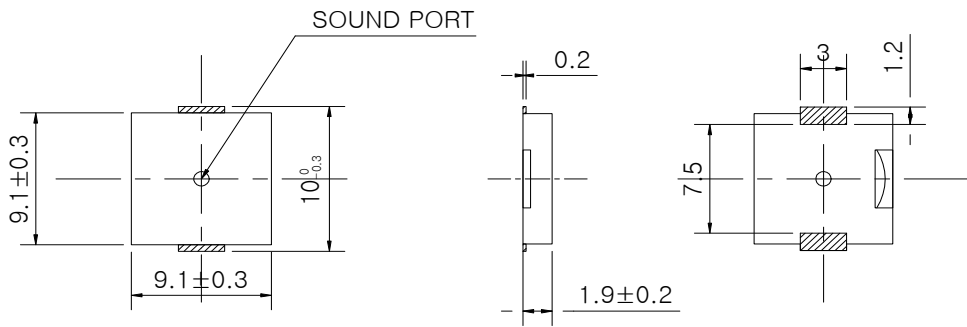
BSPT-9019S-40

Dimension	9.1 x 9.1 x 1.9 (mm)
AC Voltage	1~20 V
Freq. (Hz)	4,000
SPL (10cm)	min 75 dB

Specifications

PARAMETERS	SPECIFICATIONS	UNIT
Operating voltage	1 ~ 20 Vp-p	Vo-p
Current consumption	Max.6mA ,at 4KHz 50% duty Square Wave 5Vp-p	mA
Capacitance	9000±30%pF at 1KHz	Ω
Operating frequency *	10 ~ 10,000	Hz
Rated frequency	4000 ± 500 Hz	Hz
Sound pressure level **	Min. 75dB,at 4KHz 50% duty Square Wave 5Vp-p	dBA
Operating temperature	-30 ~ +70	°C
Storage temperature	-40 ~ +85	°C

Drawings



- UNIT : MM  
- TOLERANCE : ±0.3 UNLESS SPECIFIED  
- HOUSING MATERIAL : LCP



Overview



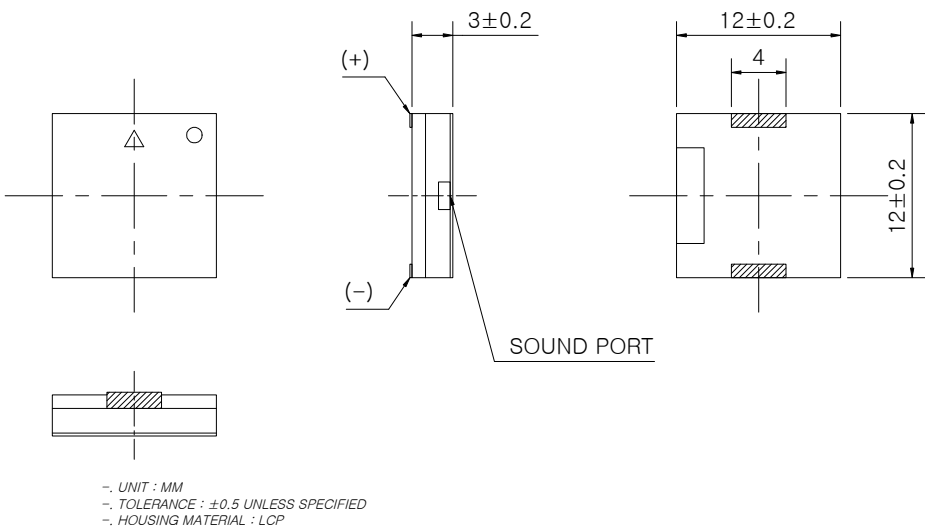
BSPT-1230S-40

Dimension	12.0 x 12.0 x 3.0 (mm)
AC Voltage	1~20 V
Freq. (Hz)	4,000
SPL (10cm)	min 80 dB

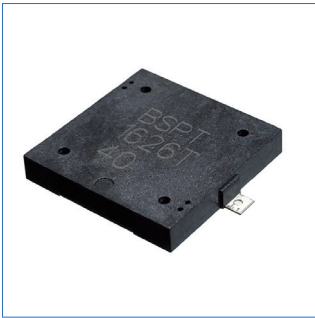
Specifications

PARAMETERS	SPECIFICATIONS	UNIT
Operating voltage	1 ~ 20 Vp-p	Vo-p
Current consumption	Max.3mA ,at 4.0KHz 50% duty Square Wave 5Vp-p	mA
Capacitance	16000pF±30%,at 120Hz	Ω
Operating frequency *	10 ~ 10,000	Hz
Rated frequency	3500 ~ 4500Hz	Hz
Sound pressure level **	Min. 80dB,at 4.0KHz 50% duty Square Wave 5Vp-p	dBA
Operating temperature	-30 ~ +70	℃
Storage temperature	-40 ~ +85	℃

Drawings



Overview



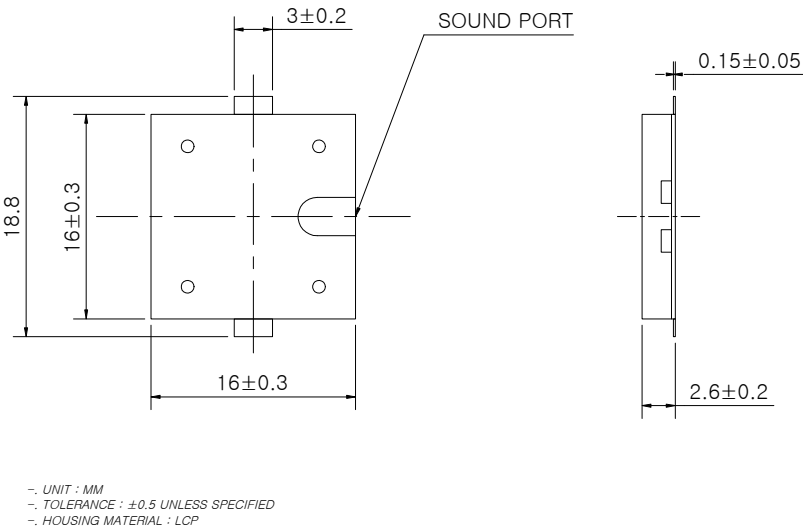
BSPT-1626T-40

Dimension	12.0 x 12.0 x 3.0 (mm)
AC Voltage	Max input 25 (Vp-p)
Freq. (Hz)	4,000
SPL (10cm)	min 80 dB

Specifications

PARAMETERS	SPECIFICATIONS	UNIT
Max input voltage	25	Vo-p
Current consumption	Max.3mA at 4KHz Square Wave 3Vp-p	mA
Capacitance	9000±30%pF at 1KHz	Ω
Operating frequency *	10 ~ 10,000	Hz
Rated frequency	4000 ± 500 Hz	Hz
Sound pressure level **	Min. 80dB,at 4KHz Square Wave 3Vp-p	dBA
Operating temperature	-30 ~ +70	℃
Storage temperature	-40 ~ +85	℃

Drawings



PIN TYPE MAGNETIC  
TRANSDUCERS

Overview



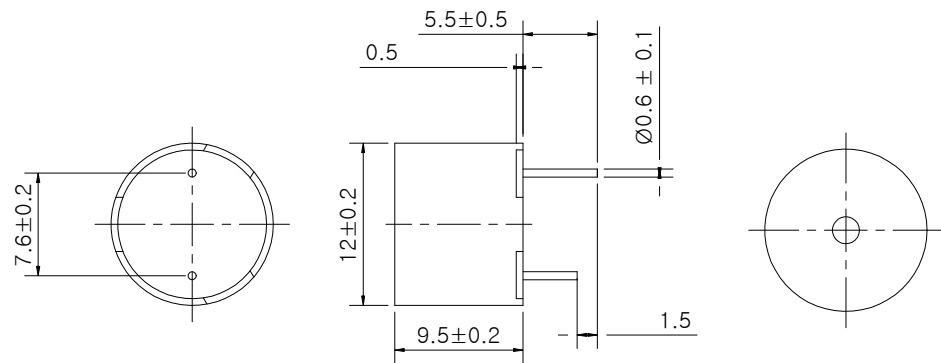
BST-1205RP

Dimension	Φ12 x 9.5mm
AC Voltage	5.0 V
Freq. (Hz)	2,400
SPL (10cm)	min 88 dB

Specifications

PARAMETERS	SPECIFICATIONS	UNIT
Rated voltage	5.0	Vo-p
Operating voltage	3.0 ~ 6.0	Vo-p
Operating frequency *	2,400	Hz
Rated current	max. 40	mA
sound pressure level	min. 90	dB
Operating temperature	-20 ~ +60	°C
Storage temperature	-40 ~ +85	°C

Drawings



-. UNIT : MM  
-. TOLERANCE : ±0.3 UNLESS SPECIFIED  
-. HOUSING MATERIAL : NORYL BLACK  
-. PIN MATERIAL : TIN PLATED COPPER

PIN TYPE MAGNETIC  
BUZZER

Overview



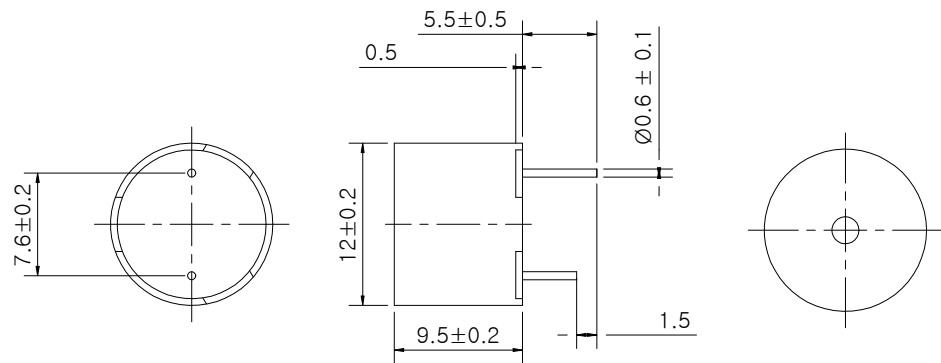
BST-1295C

Dimension	Φ12 x 9.5mm
AC Voltage	5.0 V
Freq. (Hz)	2,400
SPL (10cm)	min 88 dB

Specifications

PARAMETERS	SPECIFICATIONS	UNIT
Rated voltage	5.0	VDC
Operating voltage	3.0 ~ 7.0	VDC
Operating frequency *	2,300 ± 300	Hz
Response time	max. 50	ms
sound pressure level	min. 85	dB
max. current consumption	30	mA
Operating temperature	-20 ~ +70	°C
Storage temperature	-30 ~ +80	°C

Drawings



-. UNIT : MM  
-. TOLERANCE : ±0.3 UNLESS SPECIFIED  
-. HOUSING MATERIAL : NORYL BLACK  
-. PIN MATERIAL : TIN PLATED COPPER

## APPLICATION EXAMPLES



### APPLE IPOD 2G ~ 6G

- click sound feedback for touch wheel.
- Mounted on audio jack FPCB

## APPLICATION EXAMPLES



### PHILIPS SHAVERS

- alarming sound for low battery warning



### LCD TV / MONITORS

- input recognition tone for touch sensitive input
- Mounted on audio jack FPCB



### HYPERCOM POS

- keypad tones

## APPLICATION EXAMPLES



### THERMAL RECEIPT PRINTER

- Alarming beep sound for errors such as no paper / paper jam
- Feedback for power / feedswitch input

## APPLICATION EXAMPLES



### ETC

- keypad tone for soft membrain switches



### TOUCH SENSITIVE LIGHT SWITCH

- input recognition tone for touch sensitive input
- No limit of current. Requires high sound pressure



# **BOSAN HITECH**

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