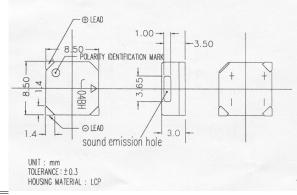


Product Data Sheet Part No. ST-03BH Reflow Type (SMD)

DIMENSIONS

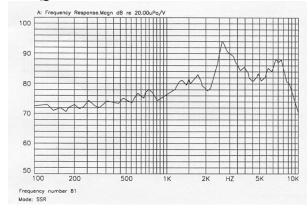




Туре	Unit	
Color		Black
Rated Voltage	(V)	3.6
Operating Voltage	(V)	2-4
Current Consumption	(mA)	MAX.70
Coil Resistance	(Ω)	15±3
Sound Output (Min)	(dB)	87
Resonance Frequency	(Hz)	2730
Operating Temp	(C)	-30~+85
Storage Temp	(C)	-40~+85
Weight	(g)	1
Terminal		SMD
Dimension	mm	8.5 x 8.5 x 3

^{*}applied voltage: Rated Voltage, 1/2 duty, square wave

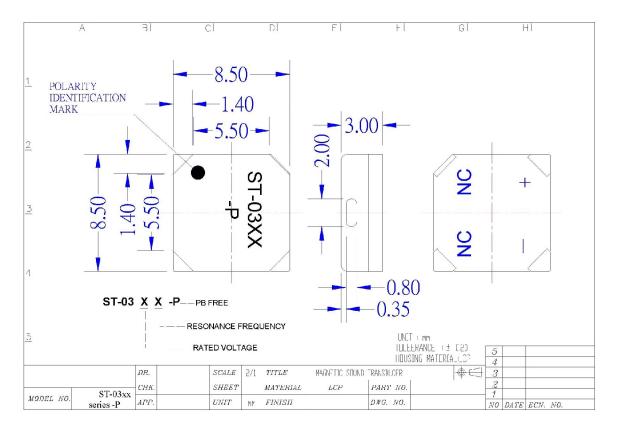
FREQUENCY RESPONSE



^{*}distance for measurement 10cm



Product Data Sheet





RELIABILITY TEST

ST-03xx Series -P

Note: No voltage is applied to the part during reliability test No. 1~4

	Item	Test Conditions	Evaluation Standard
1	Temp. test	(1) High temp. storage life test: The part shall be capable of withstanding a storage temperature of +85°C for 96 hours. (2) Low temp. storage life test: The part shall be capable of withstanding a storage temperature of -40°C for 96 hours. (3) Temp. cycle: The part shall be subjected to 10 cycles. One cycle shall consist of; +85°C -40°C 30min. 30min. 60min.	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. SPL. shall be 87 dB or more.
2	Temp. / Humidity cycle test	The part shall be subjected to 10 cycles. One cycle shall be 8 hours and consist of; +85°C a b c c 2.5 hrs 3.0 hrs 2.5 hrs a, b: 90 ~ 98% RH c : 80 ~ 98% RH	



RELIABILITY TEST

ST-03xx Series -P

Note: No voltage is applied to the part during reliability test No. 1~4

	Item	Test Conditions	Evaluation Standard
3	Vibration Test	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 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.	
4	Dropping Test	(1) Fixed drop: The part shall be mounted on 100g jig(standard peboard) and dropped from a height of 152cm onto a concrete floor 5 times in each 6 planes. (a total of 30 times.) (2) Free drop: The part only shall be dropped from a height of 75cm noto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times.)	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. SPL. shall be 87 dB or more.
5	Operating life test	(1) Ordinary temperature: The part shall be subjected to 1000 hours at room temperature (25±10°C) with rated voltage & resonance frequency applied. (2) High temperature: The part shall be subjected to 500 hours at +70°C with rated voltage & resonance frequency applied. (3) Low temperature: The part shall be subjected to 500 hours at -30°C with rated voltage & resonance frequency applied.	2. Saus OV 7 do 91 more.



RELIABILITY TEST

ST-03xx Series -P

Note: No voltage is applied to the part during reliability test No. 1~4

	Item	Test Conditions	Evaluation Standard
6	Solderability	The part shall be dipped into the soldering bath conditioned as follows; Solder temp.: 260±5°C Soaking time: 10 - 11 seconds	95% surface of lead pins must be covered with fresh solder and soldering balls should be found.
7	Pin lead strength	3 lead pins shall be solder on the pc board , and the force (10n) shall be applied behind the part for 10 ± 1 seconds.	
8	For infrared reflow oven	<recommended for="" oven="" profile="" reflow="" temperature=""> (Reference standard ; EIAJ ED-4702) 230±5℃ 150±10℃ 30±30s</recommended>	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. SPL. shall be 87 dB or more.