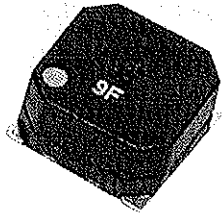


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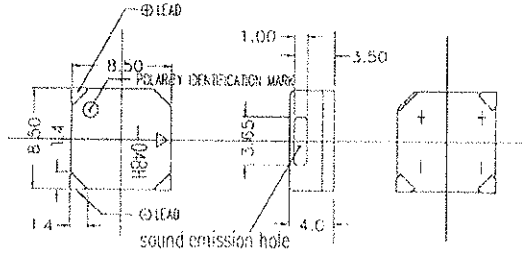
Product Data Sheet

Part No. ST-04BT Reflow Type (SMD)

- ST-04 BL
- 04 BH
- 04 BT
- 04 CH



DIMENSIONS

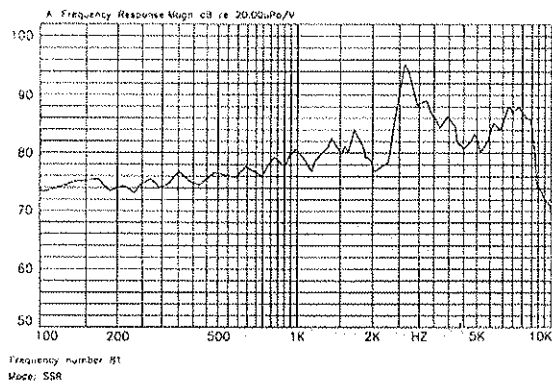


UNIT : mm
 TOLERANCE : ±0.1
 HOUSING MATERIAL : LCP

8.5 × 8.5 × 4.0

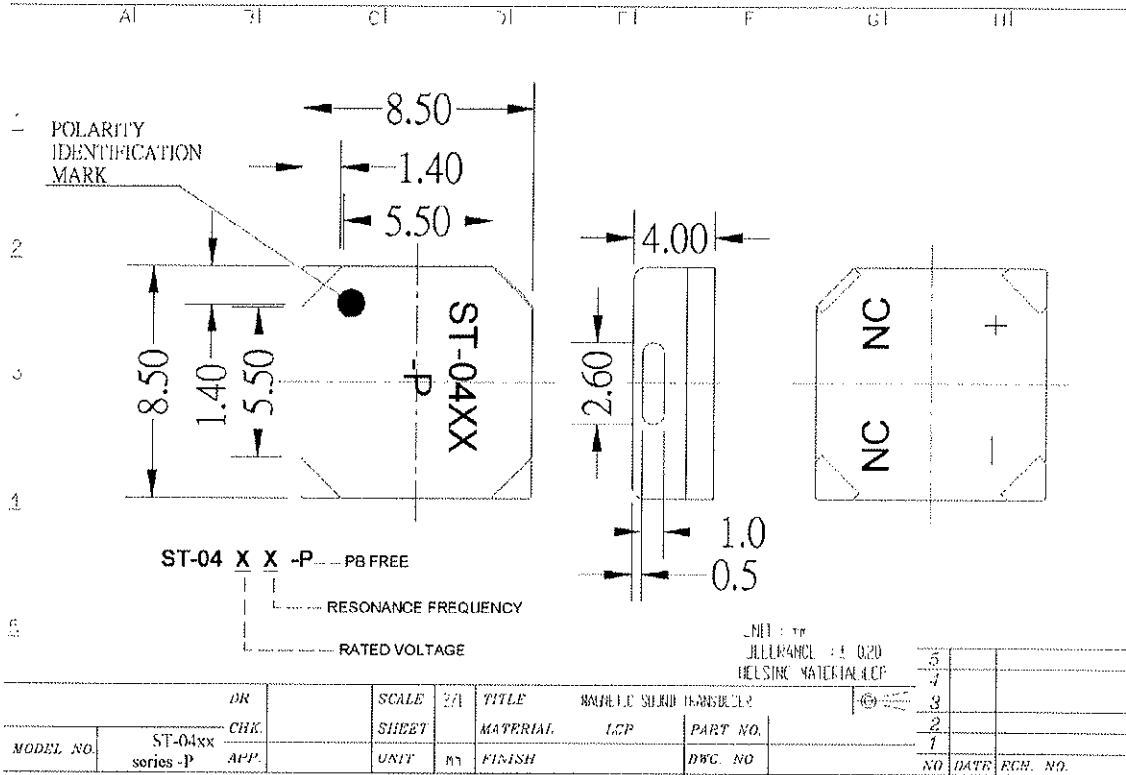
Type	Unit	
Color		Black
Rated Voltage	(V)	3.6
Operating Voltage	(V)	2-4
Current Consumption	(mA)	MAX.70
Coil Resistance	(Ω)	15±3
Sound Output (Min)	(dB)	87
Resonance Frequency	(Hz)	3200
Operating Temp	(C)	-30~+85
Storage Temp	(C)	-40~+85
Weight	(g)	1
Terminal		SMD
Dimension	mm	8.5 x 8.5 x 4
*applied voltage: Rated Voltage, 1/2 duty, square wave		
*distance for measurement 10cm		

FREQUENCY RESPONSE



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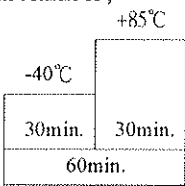
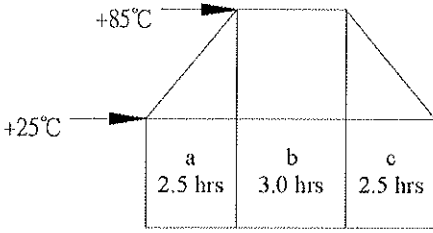
Product Data Sheet



RELIABILITY TEST

ST-04xx Series -P

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

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

RELIABILITY TEST

ST-04xx Series -P

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

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

RELIABILITY TEST

ST-04xx Series -P

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

Item	Test Conditions	Evaluation Standard
6 Solderability	<p>The part shall be dipped into the soldering bath conditioned as follows ;</p> <p>Solder temp. : $260 \pm 5^{\circ}\text{C}$</p> <p>Soaking time : 10 - 11 seconds</p>	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	<p><Recommended temperature profile for reflow oven> (Reference standard ; EIAJ ED-4702)</p>	<p>After the test the part shall meet specifications without any degradation in appearance and performance except SPL.</p> <p>SPL. shall be 87 dB or more.</p>