Approval Sheet for Product Specification 请承认书

PRODUCT NAME	SPEAKER
CUSTOMER PART NO.	
QINGLONG PART NO.	SP-3032B
DRAWWING NO.	
Issue Date	2009/04/25

APPROVAL SEAL:					
DISC	CUSS		RESOLUTION		
QA	PURCHASE	ISSUED BY	CHECKED BY	APPROVED BY	

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SIGNATURE	Issued by	Checked by	Approved by
SIGNATORE	Gu Haiping	Ni Xinhu	Lu Tianming

OINCLONG	Elastuania	Commonts	SPECII	FICATION	Page: 2/7
QINGLONG Co.,Ltd	Liectronic	Components	ISSUED	DATE	2009-04-25
			MODEL	NO.	SP-3032B

1.REVISION

Revision	Date	Description	Reason	Page
0	2009-04-25	First issue	/	/

QINGLONG	Electronic	Components
Co.,Ltd		

SPECIFICATION	Page: 3/7
ISSUED DATE	2009-04-25
MODEL NO.	SP-3032B

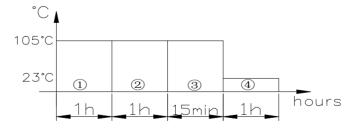
2. Electrical and Mechanical Characteristics

2.1	TYPE	Ø 30X12.8 mm		
2.2	Nominal input Po wer	0.25 W		
2.3	Impedance	32 ohm \pm 15% at 2 K Hz (DC Resistance $29 \Omega \pm 10\%$)		
2.4	Resonance Freque ncy	700 Hz ± 20 %		
2.5	Sensitivity (S.P.L)	>88DB at 1KHz 0.25W / distance 100mm		
2.6	Frequency Range	450 Hz ~ 4.0 KHz		
2.7	Distortion	5 % max at 2 K Hz 0.1 W		
2.8	Max. Input power	0.5 W		
2.9	Net Weight	9 Gram		
2.10	Temperature Rang e	-40~+105 (°C)		
2.11	Chemical Manage ment	Comply with ROHS		

3. RELIABILITY TEST (SPEAKER MODE)

3.1 High Temperature Test

After having been in a test chamber for 1000 hours at the condition of \pm 105± 3°C, and cycles at 4 phases as follows , ①and③ phases speaker is running, another two phases is not running, and then left on hour in a room should satisfy the test described under item 2.1~2.6.



		SPECIF	ICATION	Page: 4/7
QINGLONG Co.,Ltd	Electronic Components	ISSUED	DATE	2009-04-25
Co.,Ltu		MODEL	NO.	SP-3032B

3.2 Low Temperature Test

After having been in a test chamber for 500hours at the condition of $-40~\pm3^{\circ}\mathrm{C}$, and then left an hour in a room should satisfy the test described u nder item $2.1\sim2.6$

3.3 Temperature shock test

3.4 Humidity test

Temperature: $+40 \pm 3^{\circ}\mathbb{C}$ Relative humidity: 90%Duration: 1000 hours

And then left on hour in a room should satisfy the test described under item 2.1~2.6

3.5 Shock test

Acceleration 100g Nominal shock duration 11ms
Nominal shock shape half sine

Number of shocks per axis(positive and negative) 3*6=18

3.6 Terminal Strength

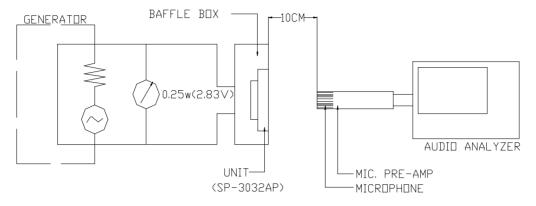
Capable of withstand a (1 kgf) load for 15 sec. Without any damage or rejection

3.7 Drop Test

Drop 3 units unpacked onto a board of 20mm thick 54 times(3 units x 3 times x 6 surfaces) from a height of 1 M and then should satisfy the test described it em 2.1~2.6

		SPECII	FICATION	Page: 5/7
QINGLONG Co.,Ltd	Electronic Components	ISSUED	DATE	2009-04-25
Co.,Ltu		MODEL	NO.	SP-3032B

4. MEASURING CIRCUIT (SPEAKER MODE)

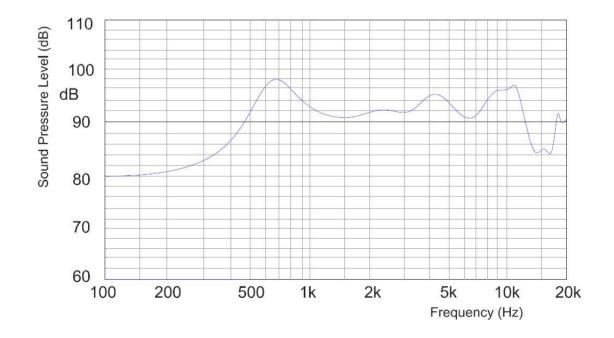


Testing Conditions.

- Anechoic Chamber
- Test Signal Input Power: 0.25W (2.83Vrms)
- Measured distance : 0.1m / on the Axis of speaker
- Measuring equipment :6160S
- Test Environment : 25°C±5°C, R.H.93%±5%

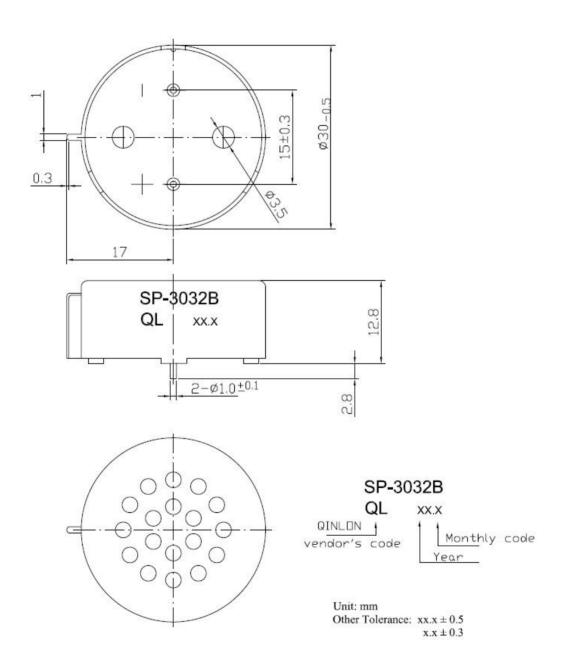
5 FREQUENCY RESPONSE CURVE

Test Signal Input Power: 0.25W (2.83Vrms)



		SPECII	FICATION	Page: 6/7
QINGLONG o.,Ltd	Electronic componentsC	ISSUED	DATE	2009-04-25
0.,Ltu		MODEL	NO.	SP-3032B

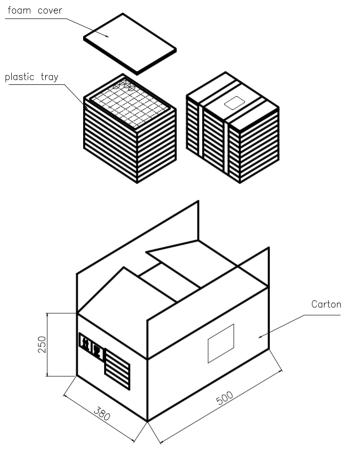
6. DIMENSION



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SPECIFICATION		Page: 7/7
ISSUED	DATE	2009-04-25
MODEL	NO.	SP-3032B

7.PACKING METHOD



- Notes: 1, 50 pcs per tray 2, 20 traies per carton 3, Total: 1000 pcs per carton , 11 Kg