

SPECIFICATION

FOR

APPROVAL

Description: Dynamic Speaker

ICC/Intervox Model No. : SR590SMT

ISSUE	CHECK	APPROVAL	CUSTOMER
LiWeiHua	Tan Qianfeng	Tang Helin	
12/06/08	12/06/08	12/06/08	



International Components Corporation.

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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Specifications
1-1	Dimension	15×15×4.0t
1-2	Rated Input Power	0.5W
1-3	Max Input Power	0.8W
1-4	Rated Impedance	8±15% Ω /1KHZ/1V
1-5	Resonance Frequency(f0)	850±15% Hz/1V
1-6	Sound Pressure Level	87±3 dB at 1.0KHZ, 1.6KHZ, 2.0KHZ, 3.2KHZ sine wave, 0.5W/0.1m baffle board (IEC)
1-7	Frequency Range	f0HZ ~ 20KHZ
1-8	Total Harmonic Distortion	5%MAX. at 2KHz, 0.1W
1-9	Flux Density	0.3T
1-10	Polarity	When a positive DC Current is applied to the voice coil terminal marked +or red, the diaphragm shall move forward
1-11	Operation Test	Must be normal at sine wave and program source 0.5W.
1-12	Buzz, Rattle, etc.	Should not be audible at 2.0V sine wave between (f0 Hz ~ 5kHz)
1-13	Weight	1.5 g
1-14	Voice Coil Diameter	φ 7.2 mm
1-15	Magnet (SmCo)	φ 6.7×1.1t mm
1-16	Appearance	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.
1-17	Storage temperature	-30℃~+85℃
1-18	Operation temperature	-40℃~+85℃

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2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	High temp. test	Keep 96 hours at +85 \pm 3 \square and leave 3 hours in normal temperature and then check
2-2	Low temp. test	Keep 96hours at -40 \pm 3 \square and leave 3 hours in normal temperature and then check
2-3	Humidity test	Keep 96 hours at + 40 \pm 3 \square relative humidity 93% \pm 3%and leave 3 hours in normal temperature and then checked.
2-4	Temp. cycle test	Low temperature: -40 \pm 3 \square , temperature: +90 \pm 3 \square , cycle: 1 hour/cycle each, and then keep 5cycles in a room.
2-5	Vibration	10~200~10Hz sin-wave sweep 15min.5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
2-6	Drop test	Free drop from 100cm height to a board of 20mm thick, every 3 surface \times 1 times, total 3 times.
2-7	Load test	Rated Power White noise is applied for 96 hours
2-8	Max Power test	Max power 1 min on – 2 min off 10 cycles.

PASS CRITERION :

After these test, the change of S.P.L shall be within \pm 3 dB .

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3.MEASURING METHOD(SPEAKER MODE)

3-1 .Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

JUDGEMENT

Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-2. Standard Test Fixture

1.Input Power : 0.5W(2.0V)

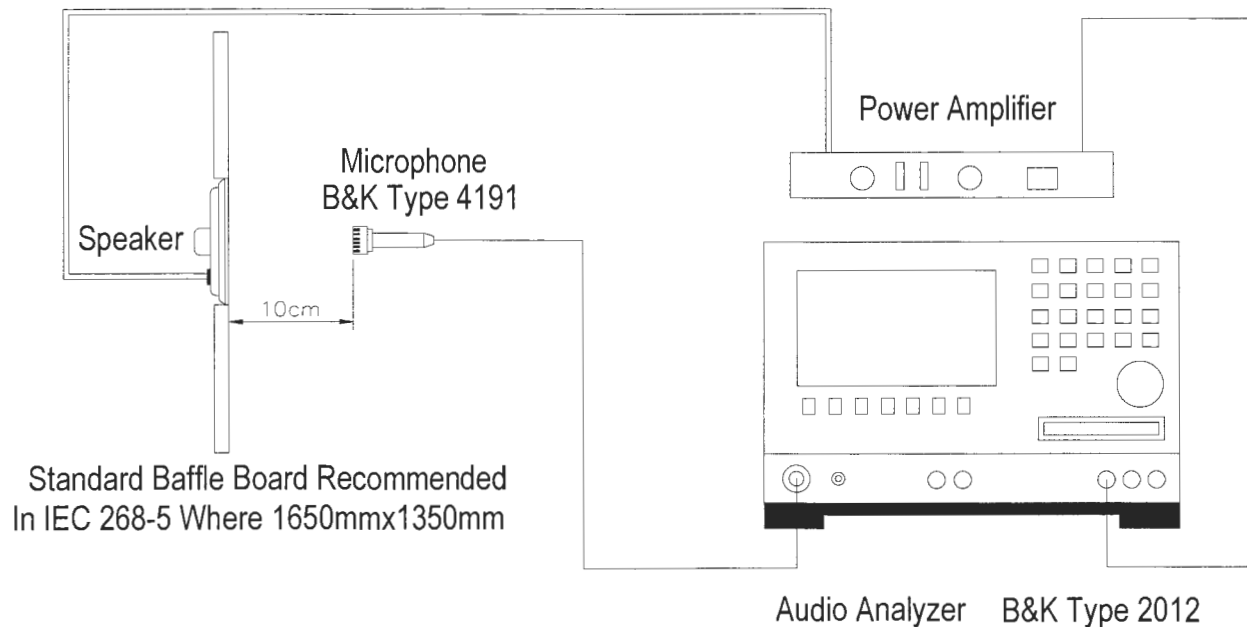
2.Zero Level : -dB

3.Mode : TSR

4.potentiometer Range : 50dB

5.Sweep Time : 0.5sec

Standard test condition of speaker



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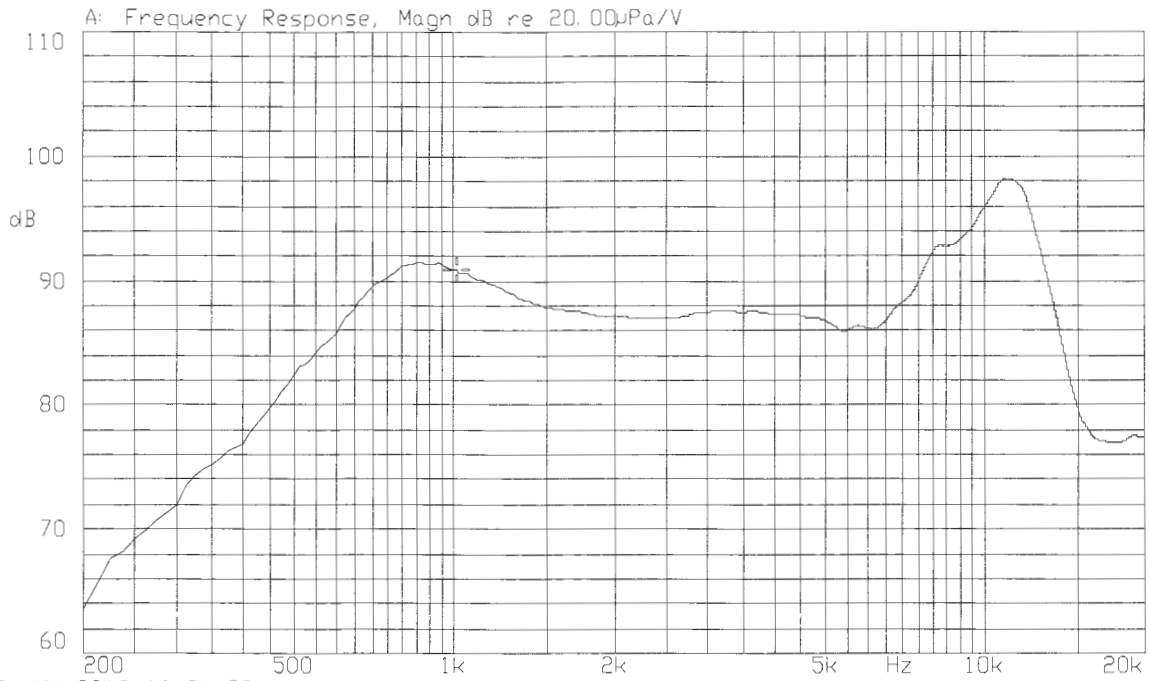
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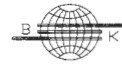
4.FREQUENCY RESPONSE CURVE

X: 1.0093kHz Y: 90.87dB ZA: Live Curve TSR Fund.



08-JUN-2012 16:01:39

Mode: TSR



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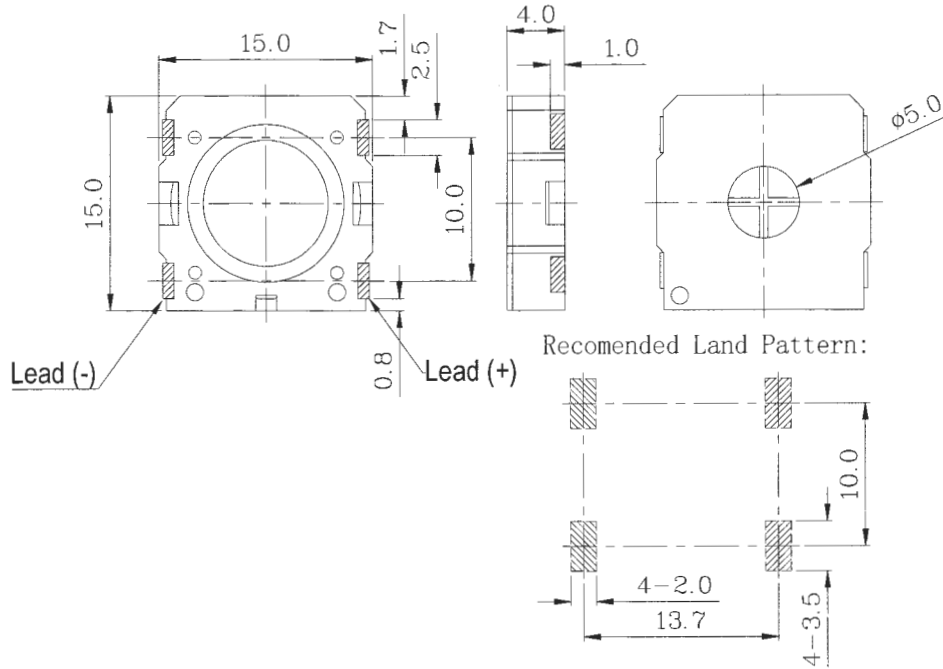
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5.DIMENSIONS

Unless otherwise specified, tolerance: ± 0.5 (unit: mm)



8	Cap	1	LCP	
7	terminal	2	Cu	
6	Magnet	1	Smco	
5	Plate	1	SPCC	
4	Voice coil	1	COPPER	
3	Diaphragm	1	PI	
2.	Yoke	1	SPCC	
1	Frame	1	LCP	

The material must be meet to GU-001

PART NO.	PART NAME	Q'TY	MATERIAL	REMARK
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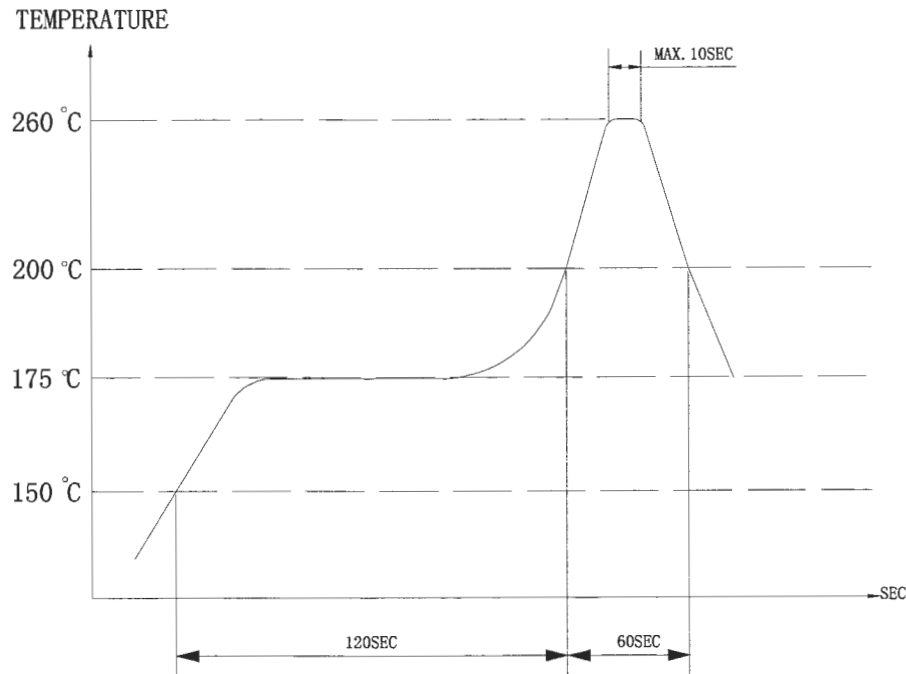
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6. Soldering Condition

(1) Recommendable reflow soldering condition is as follows

Note: It is requested that reflow soldering should be executed, after heat of product goes down to normal.



Heat resistant line

(Used when heat resistant reliability test is performed)

(2) Manual soldering

Manual soldering temperature 350° C within 5 sec.

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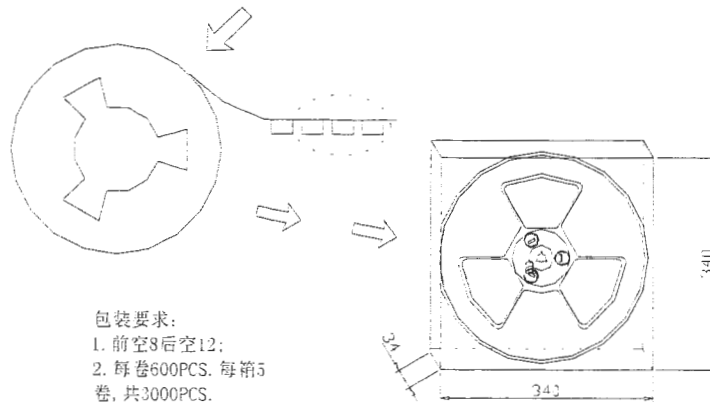
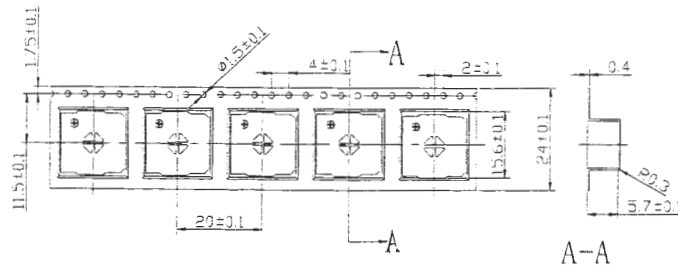
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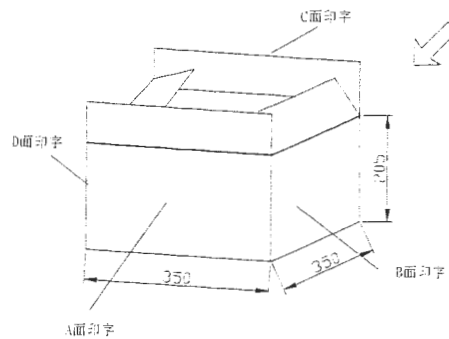
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7. PACKING



- 包装要求:
1. 前空8后空12;
 2. 每卷600PCS. 每箱5卷, 共3000PCS.



TO:



MODEL:	
QTY:	PCS
N.W:	kg
G.W:	kg
SIZE:	35 < 35 < 20.5 mm
LOT NO:	

C/N /

A. C面印字

B. D面印字

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