INTERVOX Speakers from International ©

215 McCormick Drive, Bohemia, New York 11716 (631) 952-9595 Fax:(631) 952-9597 e-mail:oemsales@icc107.com

NO. G50

ICC Part No.	**SR800SMT Surface Mount**	
1. Dimensions	Outer Diameter: 20 x 20 mm	Baffle Opening: 19.0 mm
	Height: 5.0 ± 0.3 mm	Weight: 3.2 grams
2. Voice Coil Impedance	8 Ω ± 15%	at 1500 Hz
3. Resonant Frequency	1000 ± 20% Hz.	
4. Frequency Range	700 ~ 11000 Hz.	Average SPL -10 dB
5. Sound Pressure Level	75 ± 3 dB	At 0.1 Watt / 0.5 Meter Average at 800, 1000, 1200, 1500Hz
6. Power Rating	Nominal 100 mW	Maximum 200 mW
7. Distortion	5% Max.	at 1000 Hz 100 mW
8. Abnormal Sound Test	Must be Normal	Tested by 0.89V. Sine wave.
9. Load Test	Must be Normal	at 0.89V (RMS) 96 Hours
10. High Temperature Test	The receiver shall meet items 3, 4, 5, 7, 8 after test	+85° ± 2°C Humidity Random 96Hrs
11. Humidity Test		+40° ± 2°C 90~95 %R.H. 48 Hrs
12. Low Temperature Test		-40° ± 2°C Humidity Random 96Hrs
	After test leave at room temperature for 1 hour, S.P.L. shall not deviate by ±3dB from pre-test measurement.	
13. Magnet	Material: Rare Earth	Size: 8.0 ϕ x 1.0 mm
14. Temperature Cycle Test	-40° ~ +85°C 4 Cycles Temperature Test.	
	After test leave at room temperature for 1 hour, S.P.L. shall not deviate by ±3dB from pre-test measurement and meet 3, 4, 5, 7, 8.	
15. Vibration	Frequency 30 ± 15 Hz., Amplitude 1.5 mm for 3 hours.	
16. Drop Test	75 CM free falling on Concrete floor, 10 times.	
	After test, S.P.L. shall not deviate by ±3dB from pre-test measurement and meet above specs for items 3, 4, 5, 7, 8.	
17. Polarity	Diaphragm shall move Forward while apply a Positive DC Current to the "+" or "Marked Terminal.	

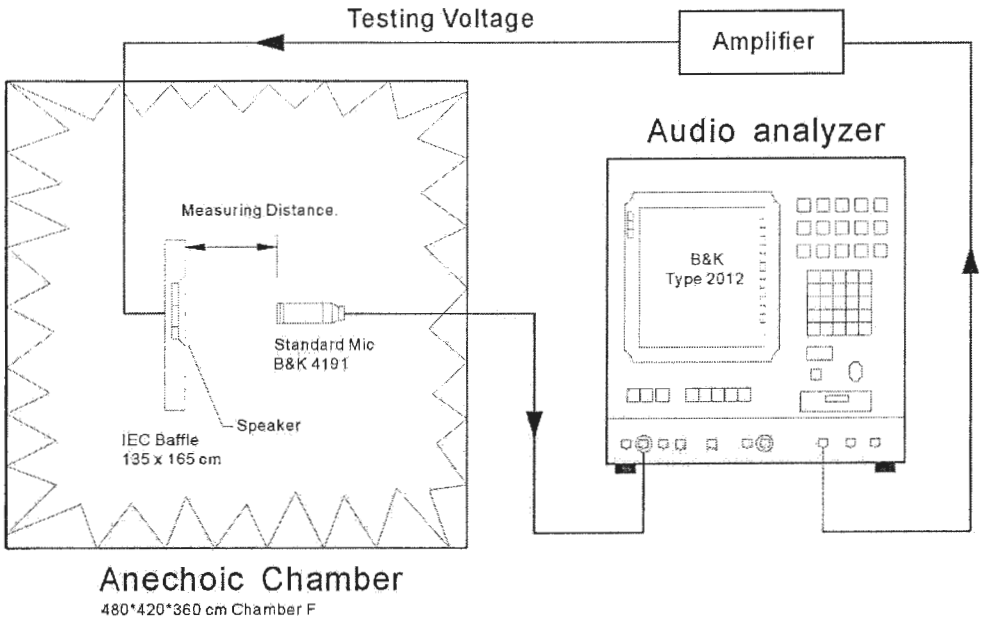
1. Characteristics measured according to standard GB/T 9396-1996

1.1 Except other specified, measuring are under Temperature 25~35℃ R.H. 25 ~75%

1.2. Judgement condition Temperature 20 ±2 R.H. 63~67%

1.3 .Product shelf life is valid for 12 months only.

2. Output Sound Pressure Level (S.P.L.) and distortion testing setup



3. Environment & Mechanical test:

3.1 High Temperature: GB2423.2-81

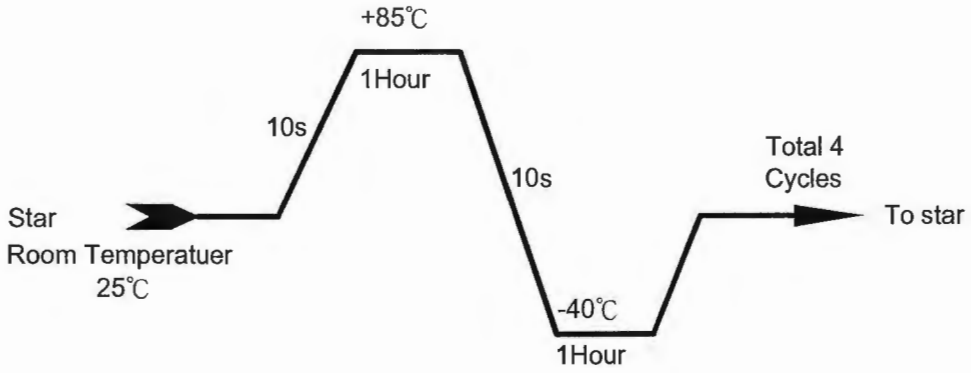
After exposure the speaker in the + 85 ± 2 °C chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 db, and resonant frequency should not deviate by ± 50 Hz, compare with pre-test measurement.

3.2 Low Temperature: GB2423.1-81

After exposure the speaker in the –40 ± 2 °C chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 db, and resonant frequency should not deviate by ± 50 Hz, compare with pre-test measurement.

3.3 Temperature cycle: GB5170.18-87

After exposure the speaker in the chamber, temperature cycle setting as below shows, SPL should not deviate by ± 3 db, and resonant frequency should not deviate by ± 80 Hz, compare with pre-test measurement.



3.4 Humidity: GB5170.18-87

After exposure the speaker in the + 40±2 °C, relative humidity 90% ~ 95% chamber for 48 hours, then leave the speaker at room temperature for 6 hours, the SPL should not deviate by ±3 db, and resonant frequency should not deviate by ±50 Hz, compare with pre-test measurement.

3.5 Vibration: GB11606.8-89

Frequency 30±15 Hz, Amplitude 1.5 mm for 3 Hours. After test, SPL shall not deviate by ±3 db from pre-test measurement,

3.6 Load test: GB/T 9396-1996

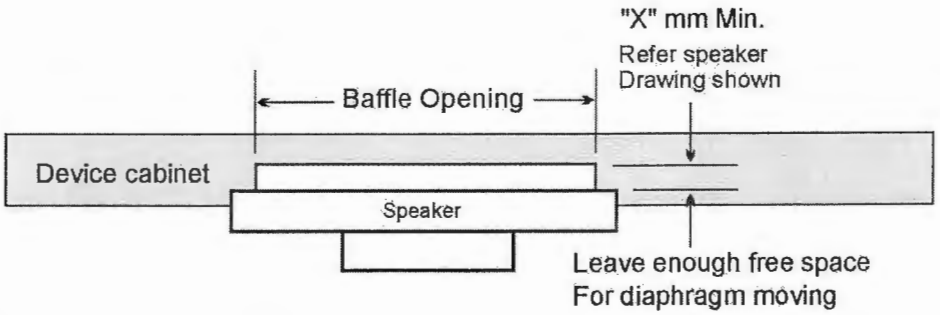
Speaker should not fail after apply 20 ~ 20K Hz white noise rated power input (RMS), 96 hours. After test, SPL shall not deviate by ±3 db from pre-test measurement,

3.7 Drop test: GB2423. 8-81

75 cm free falling on concrete floor, 10 times. After test, SPL shall not deviate by ±3 db from pre-test measurement,

4. Mounting **precaution**

In order to keep speaker work normally, there shall leave enough free space for diaphragm moving, minimum distance required is marked in speaker mechanical drawing.



5. Measuring & standard referenced

Abstract from GB/T 9396-1996 and IEC 268-5:1989 methods of measurement for main characteristics of loud speakers.

5.1 Maximum input voltage

Maximum input voltage is in the shortest time. The speaker can bear simulation signal, that persist time is 1 second, interval 60 seconds, repeated 60 times, but the speaker wouldn't be damaged externally. The maximum signal voltage is the maximum input voltage in/the shortest time.

5.2 Rated sine voltage.

It is stipulated by manufacturer, sine signal voltage that make speaker work continuously in rated frequency range, but the speaker wouldn't be damaged heartily or mechanically. The persist time of the voltage is 1 hour.

5.3 The shortest time maximum power.

It is corresponding with the shortest time maximum input voltage, its definition is U_{st}^2/R, U_{st} indicates the shortest input power, R indicates the rated impedance.

5.4 The long time maximum power.

The long time maximum power is corresponding with the ling time maximum input voltage, Its definition is $U_{lt}2/R$, U_{lt} indicates the long time maximum input voltage, R indicates the rated impedance.

5.5 The rated sine power.

The rated sine power is corresponding with the rated sine voltage, its definition is U_s^2/R, Us indicates the maximum sin voltage, R indicates the rated impedance.

5.6 The rated noise power.

The rated noise power is corresponding with the rated noise voltage, its definition is U_n^2/R, Un indicates the rated noise voltage, R indicates the rated impedance.

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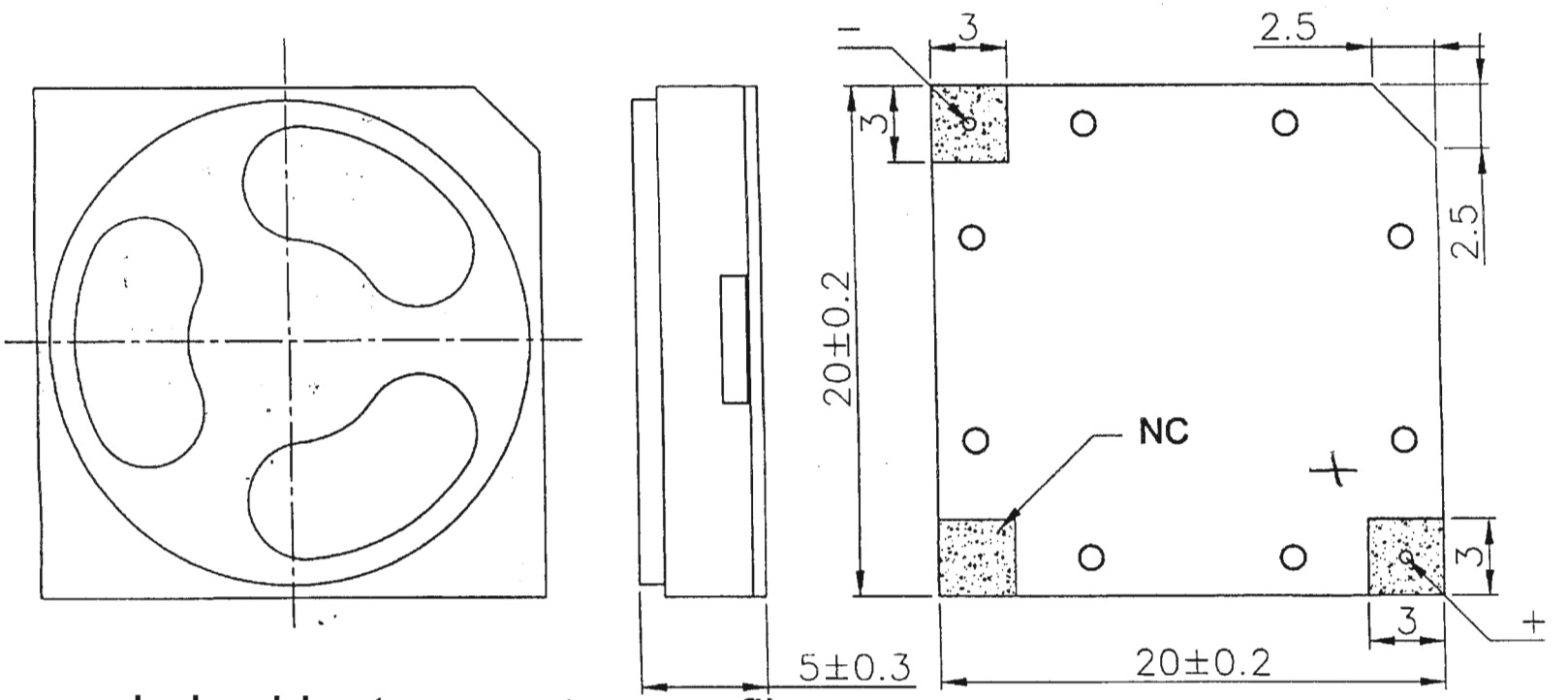
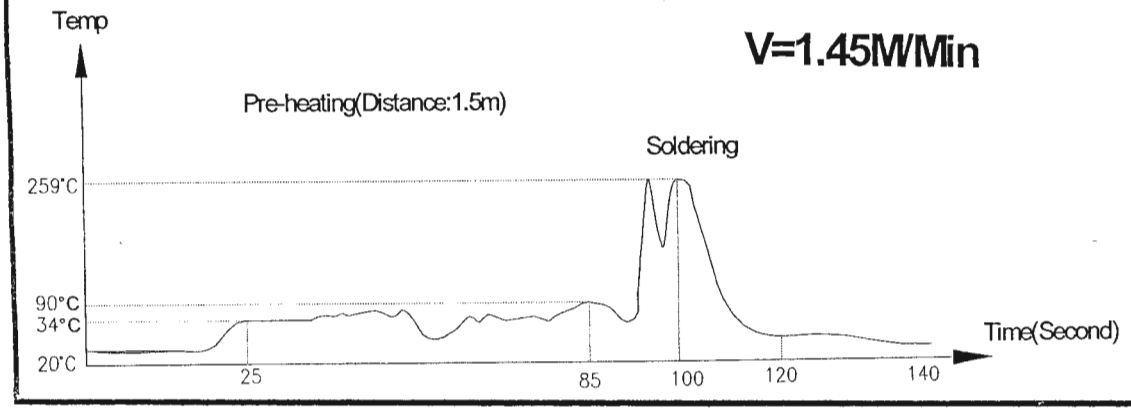
SR800SMT (Surface Mount Speaker)



Recommended solder temperature profile



INTERVOX International ©
International Components Corporation
175 Marcus Blvd., Hauppauge, NY 11788 631-952-9595 FAX 631-952-9597 www.icc107.com

Title: Intervox Surface Mount Speaker		
	Intervox Model # SR800SMT	Rev. 1.0
Scale: mm	Date: 5/08/20001	Sheet 1 of 1

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VOL:0.894V(0.1W) DIS:0.5M