Ů*EC∎* 

1.	MODEL:	13CSF08QS DYNAMIC SPEAKER
2	Dimension	Outer Diameter <b>13</b> mm.
		Height Refer to Fig 1 mm. Weight 1.0 g
3.	Magnet	Materials NdFeB Size: F 5.8 * 0.7 mm.
4.	Impedance	<b>8 Ω ± 15</b> % At <b>1000</b> Hz.
5.	Power Rating	Normal <b>0.3</b> W. Maximum <b>0.5</b> W.
6	Lowest Resonant Frequency	900 ; 20% Hz at 1.0V measured by SUNLILAB® 7117C
7.	Output Sound Pressure	78 ± 3 db / 0.3Watt · 0.3Meter, Measured by B&K Type 2012
	(S.P.L.)	At 800, 1000, 1200 ,1500 HZ Average
8.	Frequency Range	650 ~ 20,000 Hz. Average SPL -10db Refer to Fig. 2
9.	Distortion	<b>5</b> % Maximum at 1500 Hz <b>0.3</b> W.
10.	Abnormal Sound Test	Must be Normal Tested By <b>1.55</b> Volts. Sine Wave.
11.	Load Test	White Noise With IEEE-219 Weighted filter <b>1.55</b> Volts(RMS.) <b>24</b> hrs.
12	Storage Temperature	- 25°C ∼ + 65°C
13.	Operating Temperature	- 20°C ~ + 60°C
Removable paper line		vable paper liner
PRELIMINARY Fig.1		



## **15.Environment** Test

15.1 Environment test – High temperature.

After exposure the speaker in the +  $65\pm$  3 °C chamber for 24 hours, then leave the speaker at room temperature for 2 hour, the SPL should not deviate by  $\pm$  3 db, compare with pre-test measurement.

15.2 Environment test - Low temperature.

After exposure the speaker in the  $-25 \pm 3$  °C chamber for24 hours, then leave the speaker at room temperature for 2 hour, the SPL should not deviate by  $\pm 3$  db, compare with pre-test measurement.

15.3 Environment test-Temperature cycle.

After exposure the speaker in the chamber, temperature cycle setting as below shows, SPL should not Deviate by  $\frac{1}{1}$  4db,compare with pre-test measurement.



15.4 Environment test – Humidity.

After exposure the speaker in the + 40  $_{i}3 \circ _{J}$ , relative humidity 90% ~95% chamber for 24 hours, then leave the speaker at room temperature for 6 hours, the SPL should not deviate by  $_{i}3db$ , compare with pre-test measurement.

## PRELIMINARY