

Lautsprecher LSF-S2509A Art.-Nr.: 106120

Specification :

	Item	Specifications
1-1	Dimension	9×25×3.0t
1-2	Rated noise power	1.0W/in 2ccbox
1-3	Maximum short term power	1.5W/in 2ccbox
1-4	Rated Impedance	8±15% Ω /2.0k Hz/2.83 Vrms/in 2cc box
1-5	Resonance Frequency(f0)	800±20% Hz while testing in 2cc box
1-6	Sound Pressure Level	93±3 dB SPL /2.83V/10cm at 2.0K Hz, in 2cc box
1-7	Rated Frequency Range	Fo ~20k Hz
1-8	Total Harmonic Distortion	THD ≤ 15 % @ Rated Power / 1K Hz/ 10 cm / 2cc test fixture on baffle
1-9	Polarity	When a positive DC Current is applied to the voice coil terminal marked + ,the diaphragm shall move forward
1-10	Buzz,Rattle,etc.	Must be free audible noise (buzzes and rattles)(at rated frequency range ,input level up to 2.83Vrms, while testing in 2cc box.)
1-11	Weight	2.8g
1-12	Appearance	Should not exist any obstacle to be harmful to normal operation;damages,cracks,rusts and distortions,etc.
1-13	Storage temperature	-40℃~+85℃
1-14	Operation temperature	-20℃~+70℃

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Environmental Test:

	Item	Specifications
2-1	Temperature Shock	-40°C / +85°C 20 cycles. 30 minutes at each temperature. 10 - 15 seconds transition time. Refer to IEC 68-2-14
2-2	Static Humidity Test	Soak samples to +55°C with 95% relative humidity for continuous period of 96 hours. Refer to IEC 68-2-67
2-3	Drop Test	DUTs shall be mounted in a 150g fixture, drop samples from 1.5m to marble ground three times in each direction, total 18 times.
2-4	Operating Life	DUTs shall be tested under each specified climatic condition (Test Climatic condition: Refer section 3-1) for a continuous period of 100 hours at rated noise power. Speakers mounted in a 2cc back cavity; simulated program signal (IEC 268-1) with crest factor of 1.8~2.2, in rated frequency range; high pass 12dB/Oct or steeper, cut off at 850Hz. Refer to IEC 268-5.
2-5	Short Term Maximum Power	DUTs shall be tested under each specified climatic condition (Test Climatic condition: Refer section 3-1), Input shall be simulated program signal (per IEC 268-1) with crest factor of 1.8 to 2.2 in rated frequency range for a period of 1 second. And the test shall be repeated 60 times with intervals of 1 min. Refer to IEC 268-5.
2-6	Storage in cold environment	96 hours, -40±2 °C, 2 hours Recovery time. Refer to IEC 60068-2-1, Ab.
2-7	Storage in Dry Heat environment	96 hours, +85±2 °C, 2 hours Recovery time. Refer to IEC 60068-2-2, Bb.
PASS CRITERION : After these test, Unless otherwise noted, the recovery period shall be 4 hours at least before performance testing, the change of S.P.L shall be within ±3 dB .		

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Measuring Method (Speaker Mode)

3-1 .Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

JUDGEMENT

Temperature : $20 \pm 3^\circ\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

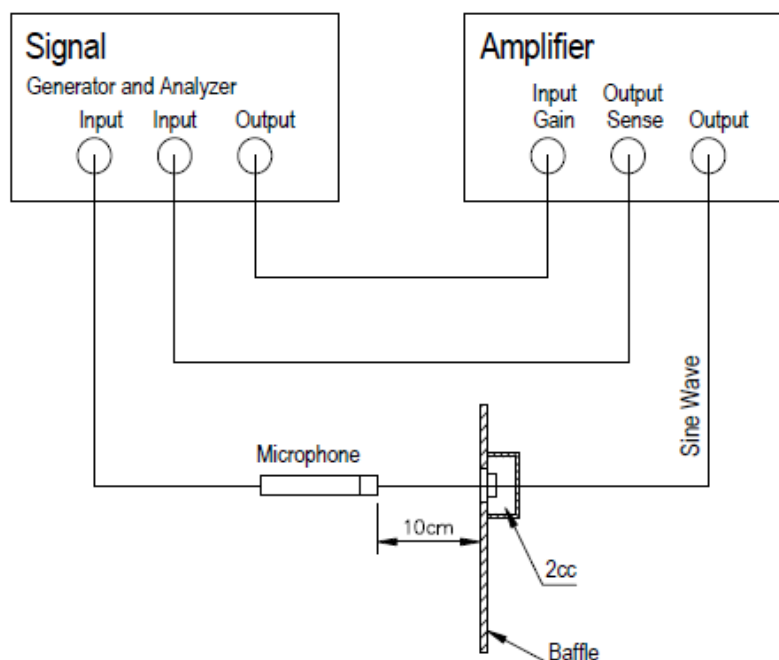
3-2 . Standard Test Fixture

1. Input Power : $2.83\text{V}_{\text{rms}}$

2. Frequency sweep pattern: R40(1/12 oct)

3. Frequency sweep range: 100Hz~20k Hz

Speaker Measurement Circuit

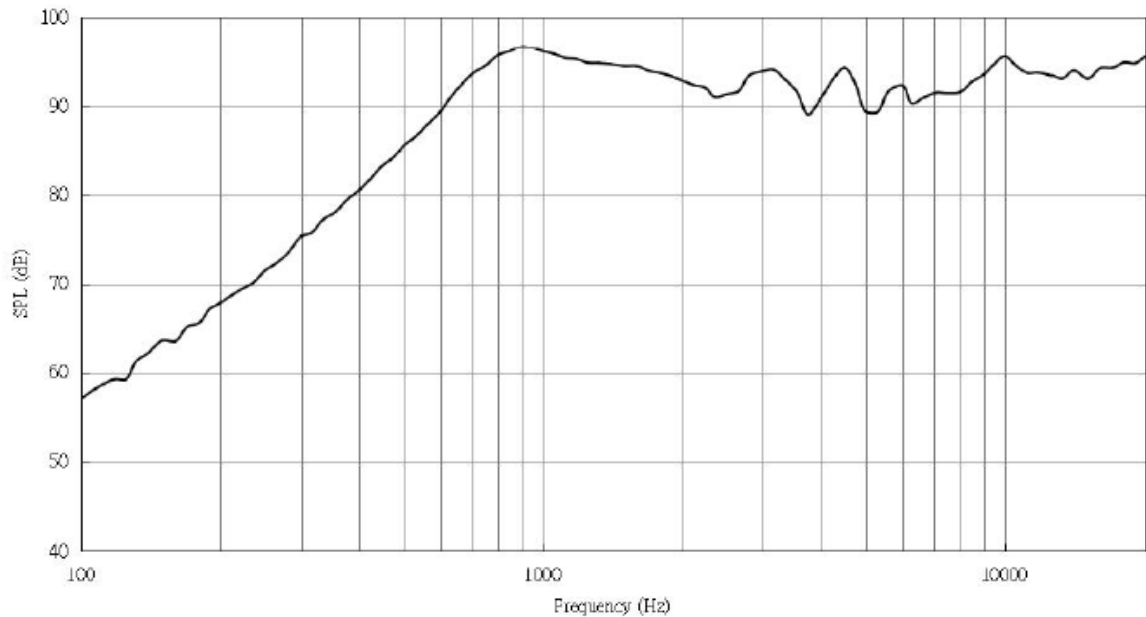


(fig.1)

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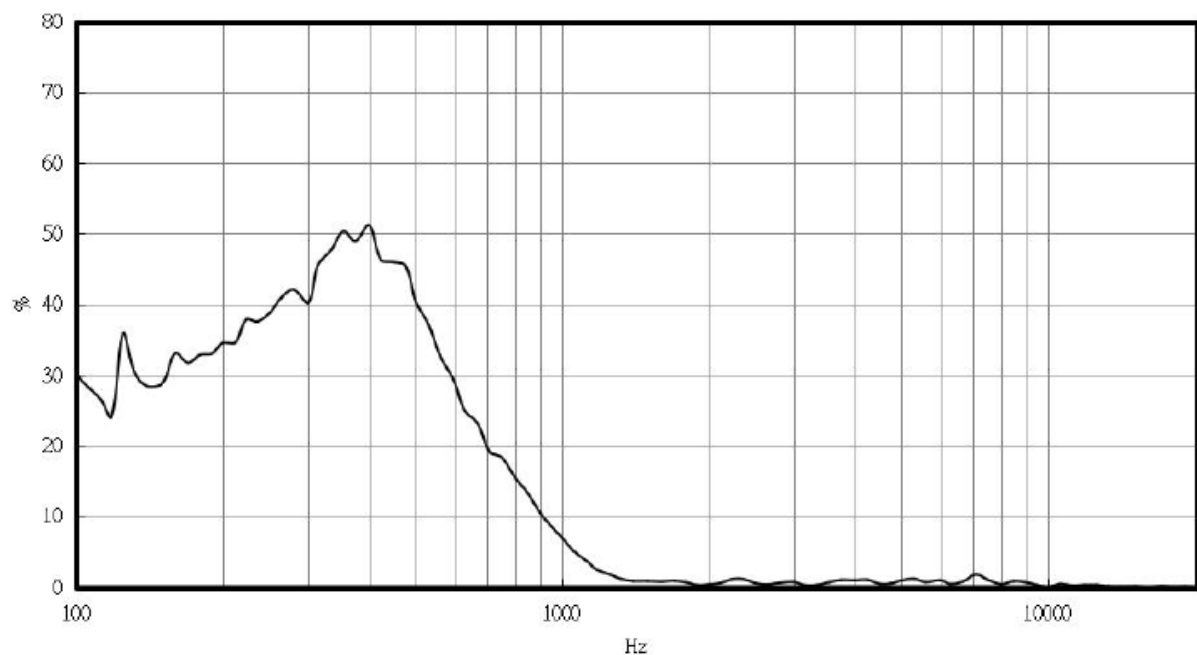
Frequency Response Curve:

测试条件: 2.83Vrms/10cm/in 2ccbox



Speaker Distortion Curve:

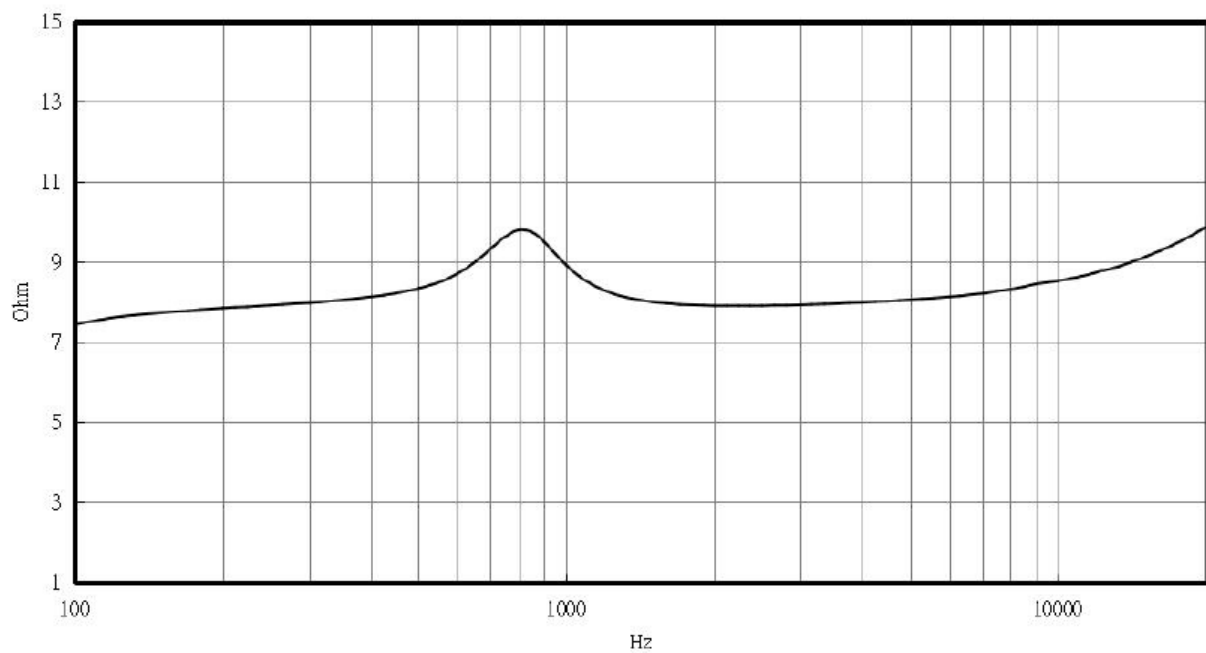
测试条件: 2.83Vrms/10cm/in 2ccbox



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Impedance Response Curve:

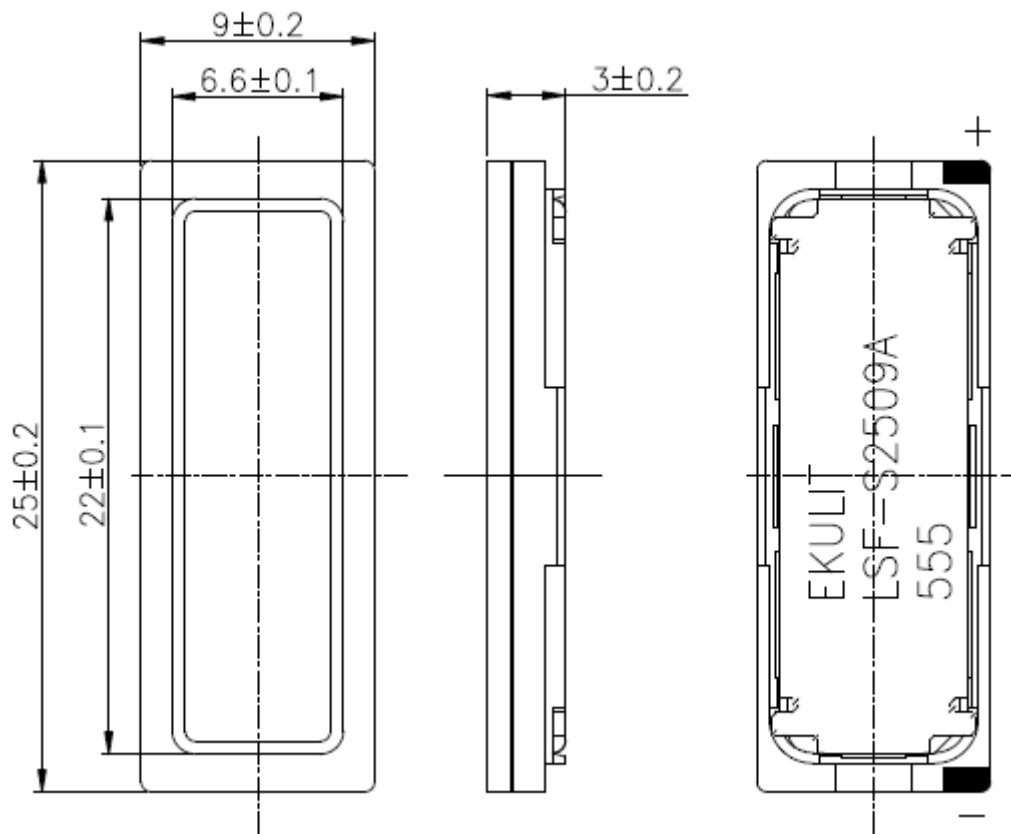
测试条件: 2.83v



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Dimensions:

(Unit: mm±0.2)



Part No.	Part Name	Q`TY	Material	Remark
1	Frame	1	PPA	GU-001
2	Yoke	1	SPCC	GU-001
3	Diaphrgm	1	PEEK	GU-001
4	Voice Coil	1	Cooper Wire	GU-001
5	Plate	1	SPCC	GU-001
6	Magnet	1	NdFeB	GU-001
7	Front Cover	1	PC	GU-001
8	Pin	2	SUS	GU-001

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Packing:

