

INGRID SPRAKER

with solder pad

Specification Finished Product

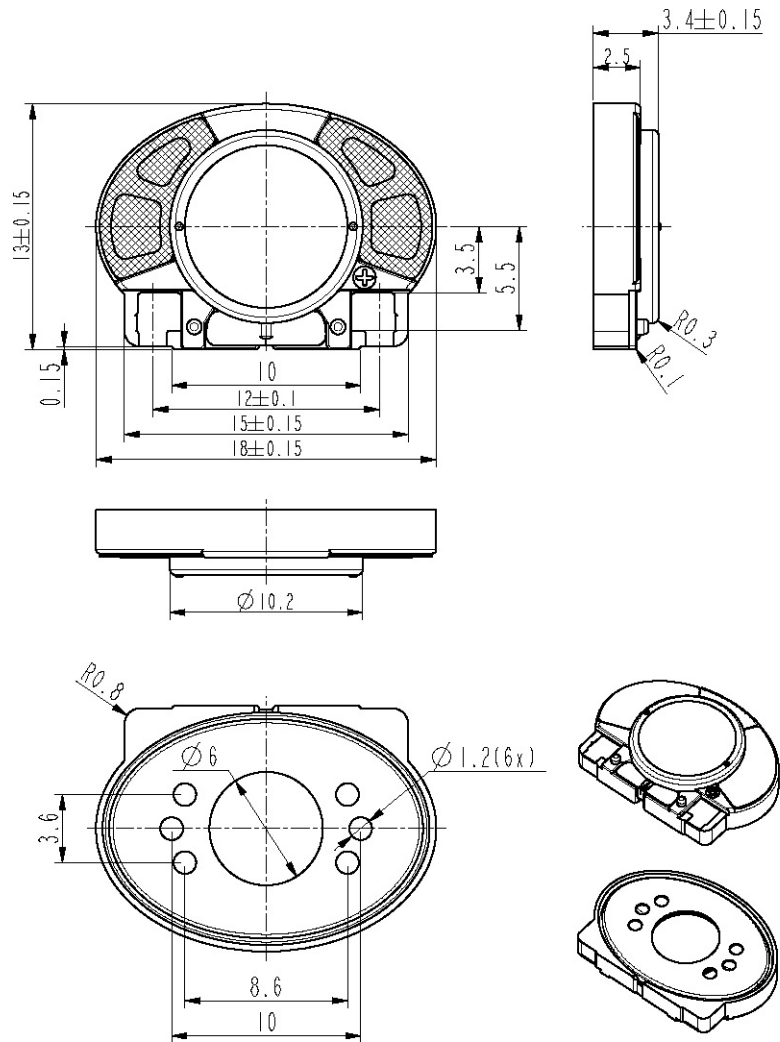
Order no.: **2403 263 00044**



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TYPE No.: WD			CHANGE No.: / REVISIONDATE							
check design	check acoustics	release	ECO	17.01.2007						
Lim	Amy	Kevin								

Main dimensions:



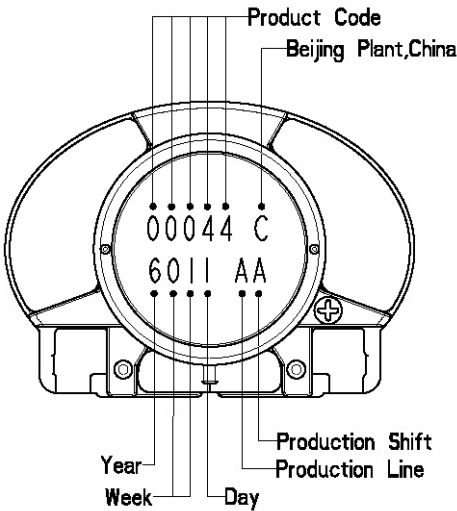
Drawing not to scale!

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Mechanical Characteristic:

- 1. MATERIAL of BASKET: PPA
- 2. MATERIAL of MEMBRANE: PEN
- 3. MATERIAL of POT/TOPPLATE: SOFT MAGNETIC IRON
- 4. MATERIAL of MAGNET: Nd Fe B
- 5. MATERIAL of SPRING CONTACT: CrNi-STEEL
- 6. PLATING of SOLDER PAD: 2.5-3.5 μm Ni, 0.3-0.5 μm Au
- 7. MATERIAL of COVER: CrNi-STEEL
- 8. DIMENSION: 13x18x3.4mm
- 9. MASS: 1.4g
- 10.CONNECTION: SOLDER PAD
- 11.DIRECTION of CONTACTS: VERTICAL TO PCB (ORIENTATED)
- 12.STAMP:

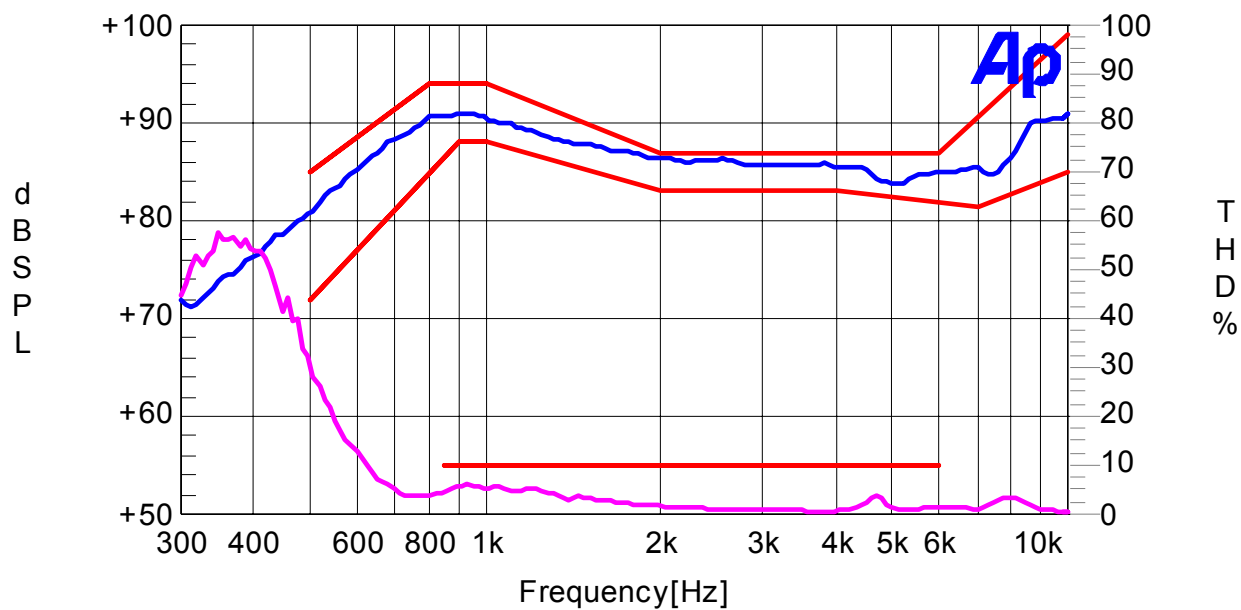
(Numbers are generic example)



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Frequency Response:

TYPICAL FREQUENCY RESPONSE ON BAFFLE - at 100mW, in 10 cm distance



f[Hz]	THD[%] Limit	f[Hz]	SPL[dB] Lower limit	f[Hz]	SPL[dB] Upper limit
850	10	500	72	500	85
6000	10	900	88	800	94
		1000	88	1000	94
		2000	83	2000	87
		4000	83	4000	87
		7000	81.5	6000	87
		10000	85	10000	99

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Electro Acoustic Characteristics:**I. LOUDSPEAKER UNMOUNTED**

- | | | |
|--------------------------------|---|-----------------------|
| 1. RATED IMPEDANCE | Z | 8 $\Omega \pm 15\%$ |
| 2. VOICE COIL RESISTANCE R: | | 7,3 $\Omega \pm 15\%$ |
| 3. RESONANCE FREQUENCY f_0 : | | 850 Hz $\pm 15\%$ |
| 4. MAGNETIC FLUX DENSITY B: | | 0,8~ 0,9 T |

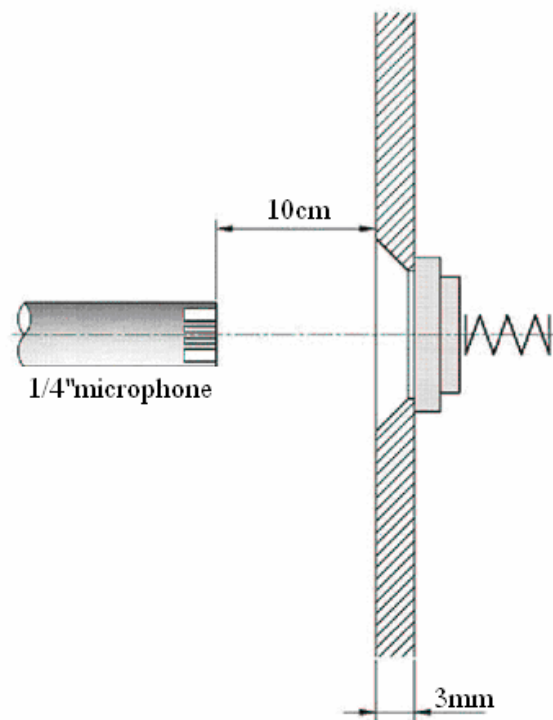
II. LOUDSPEAKER IN MEASUREMENT SETUP ACC. SHEET 190-5

- | | |
|---|-------------------------|
| 1. CHARACT. SENSITIVITY (at 1W in 1m)
average in the frequency range:
2000 Hz – 4000 Hz | 75 dB |
| 1.1 CHARACT. SENSITIVITY (at 100mW in 10cm)
average in the frequency range:
2000 Hz – 4000 Hz | 85 \pm 2 dB |
| 2. RATED FREQU. RANGE | f ₀ ~10000Hz |
| 3. THD
(100mW, 10cm, from 850Hz~6kHz) | $\leq 10\%$ |
| 4. MAX. SHORT TIME POWER
(ACC. TDT) | 1 W |
| 5. MAX. LONG TIME POWER
(ACC. TDT) | 0,5 W |

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Measurement Setup:

ON BAFFLE - at 100mW, in 10cm distance



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Additional Documents:

1) Packaging information

See SHEET 299: Packaging Instruction for INGRID SPEAKER 2403 263 00044

2) Technical Delivery Terms

See General TPD Document for INGRID group: 9922-580-11721-EN-A

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