



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

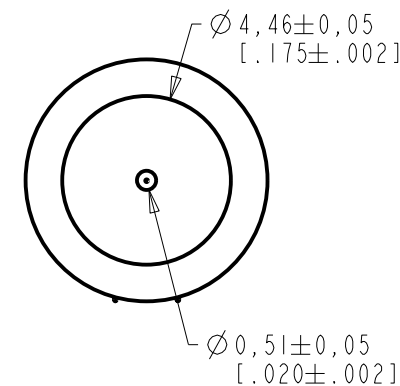
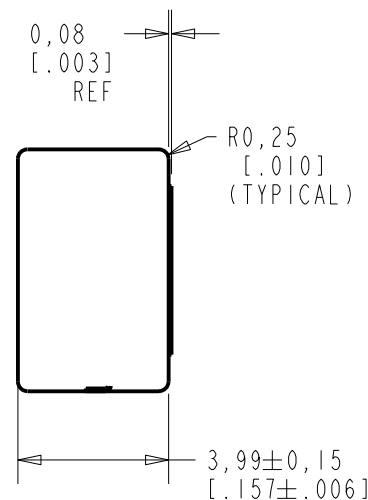
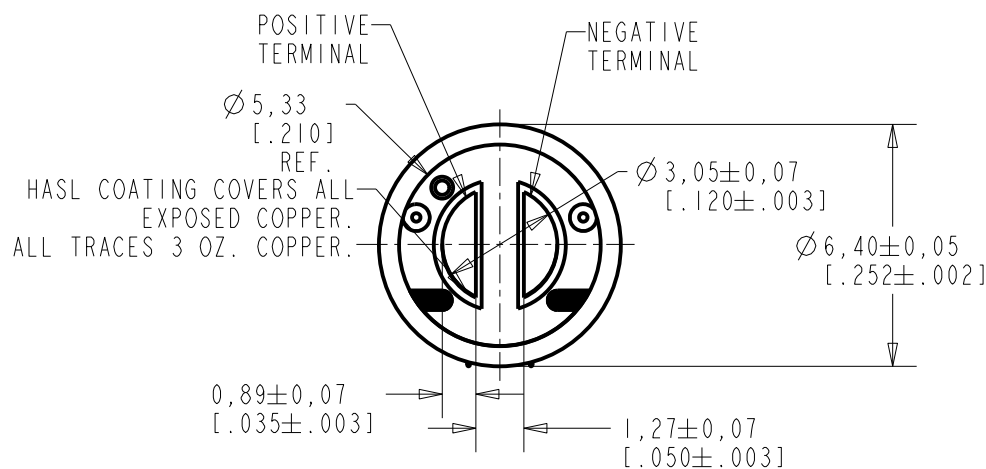


SR-31843-000

SHT 1.1

NOTES:

1 A POSITIVE GOING VOLTAGE AT THE POSITIVE TERMINAL, RELATIVE TO NEGATIVE TERMINAL, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.



SCALE 2:1

NOMINAL WEIGHT
0.26 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

| Revision | C.O. # | Implementation Date | RELEASE LEVEL | REVISION |
|----------|-----------|---------------------|---------------|----------|
| C | CI0116443 | 11-20-14 | Active | C |
| B | CI0116253 | 9-25-14 | | |
| A | CI0115013 | 8-21-13 | | |

| | | | |
|----------------------|--|---------|---------|
| SCALE: 5:1 | | DR. BY | DATE |
| DO NOT SCALE DRAWING | | LW | 8-21-13 |
| TITLE: RECEIVER | | CK. BY | DATE |
| OUTLINE DRAWING | | GJP | 8-28-13 |
| SR-31843-000 | | APP. BY | DATE |
| SHT 1.1 | | GJP | 8-28-13 |

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

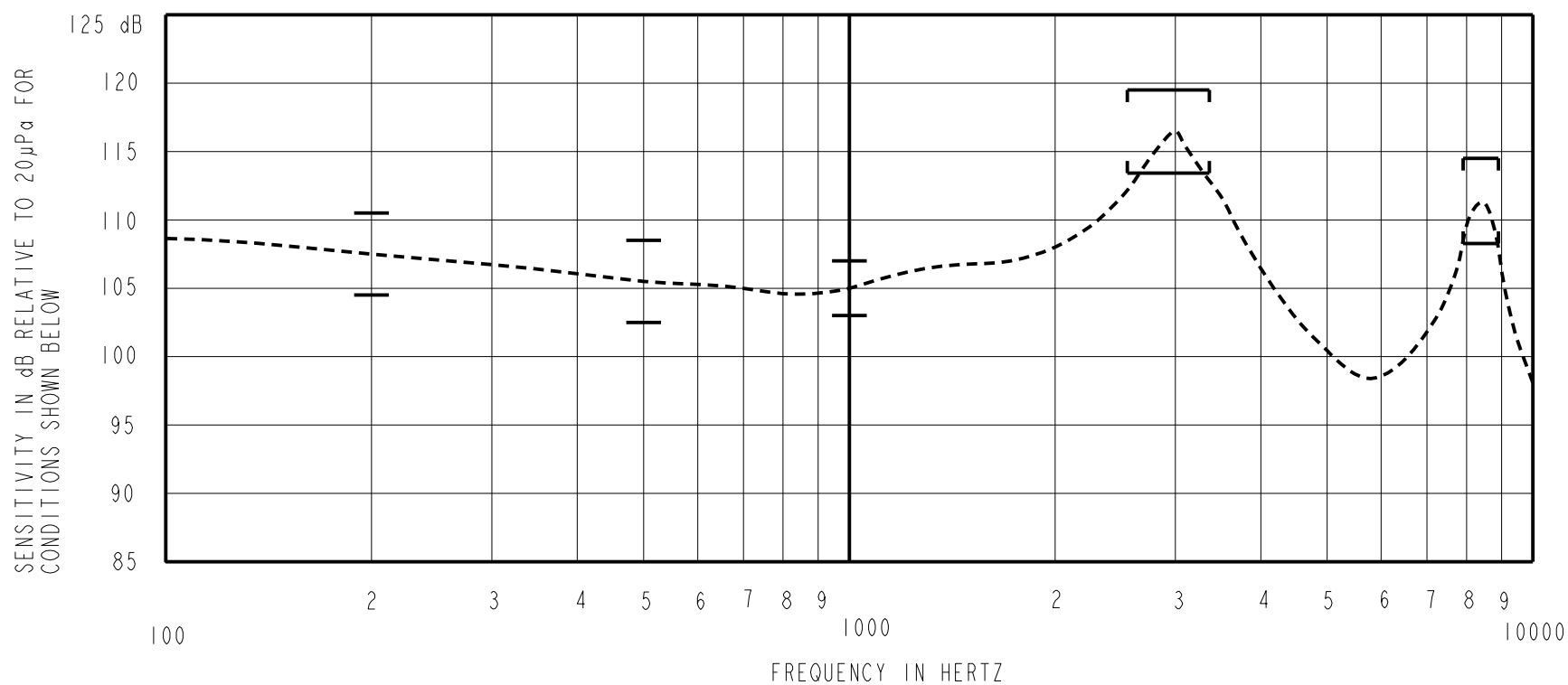
THE SIRENS SR-31843-000 IS A MAGNETIC BALANCED ARMATURE RECEIVER OPTIMIZED FOR USE IN EARPHONES.

NO DAMPING

SR-31843-000

SHEET 2.1

NOTE: SPECIFICATIONS FOLLOWED BY AN ASTERISK (*) ARE 100 % TESTED



ACOUSTICAL

SENSITIVITY

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 3.

NOMINAL SENSITIVITY AT 1kHz IS dB RELATIVE TO 20µPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

| LIMIT TYPE | FREQUENCY (Hz) | MINIMUM | NOMINAL | MAXIMUM |
|------------|----------------|---------|---------|---------|
| REL | 200 | -0.5 | +2.5 | +5.5 |
| REL | 500 | -2.5 | +0.5 | +3.5 |
| REF | 1000 | -2.0 | 105 | +2.0 |
| PEAK | 2600-3400 | +8.5 | +11.5 | +14.5 |
| PEAK | 7900-8900 | +3.5 | +6.5 | +9.5 |

TABLE 1

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

| FREQUENCY (Hz) | AC DRIVE (V rms) | DC BIAS (V) | MAX (%) |
|----------------------|------------------|-------------|---------|
| 1/3 PEAK (TYP. 964) | 0.1 | 0 | 5 |
| 1/2 PEAK (TYP. 1446) | 0.1 | 0 | 5 |
| 1/3 PEAK (TYP. 964) | 0.3 | 0 | 10 |
| 1/2 PEAK (TYP. 1446) | 0.3 | 0 | 10 |

TABLE 2

TEST CONDITIONS

| | |
|------------------------|--------------------------------------|
| NOMINAL SOURCE VOLTAGE | 0.1 V rms, 0 mA DC BIAS |
| SOURCE IMPEDANCE | <1 Ohm |
| TUBING | 7mm [.236"] LONG, 2.2mm [.039"] I.D. |
| COUPLER CAVITY | IEC 60318-4 ("711") COUPLER |

TABLE 3

ELECTRICAL

| | |
|--------------------|-----------------|
| DC RESISTANCE | 25.0 Ohms ± 10% |
| IMPEDANCE @ 500 Hz | 32.5 Ohms ± 15% |
| IMPEDANCE @ 1 KHz | 46.0 Ohms ± 20% |

TABLE 4

ISOLATION: CASE WILL BE ELECTRICALLY ISOLATED FROM THE COIL CIRCUIT.

MECHANICAL CHARACTERISTICS

SOLDER TYPE: SAC305 (LEAD FREE)
 SOLDERING TEMPERATURE: 400°C FOR 2 SECONDS MAX.
 STORAGE TEMPERATURE: -40°C TO 63°C
 OPERATING TEMPERATURE: 0°C TO 63°C

AT EXTREME ENDS OF THE OPERATING TEMPERATURE THE SENSITIVITY WILL NOT VARY MORE THAN ±3 dB FROM ROOM TEMPERATURE

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| B | C10116253 | 9-25-14 | | |
| A | C10115013 | 8-21-13 | | |

| | | |
|---|--|-----------------------------|
| <p>KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.</p> | WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION | DR. BY DATE LW 8-21-13 |
| | TITLE: RECEIVER | GJP 8-28-13 |
| | PERFORMANCE SPECIFICATION | APP. BY DATE GJP 8-28-13 |
| | SR-31843-000 SHT 2.1 | |