



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

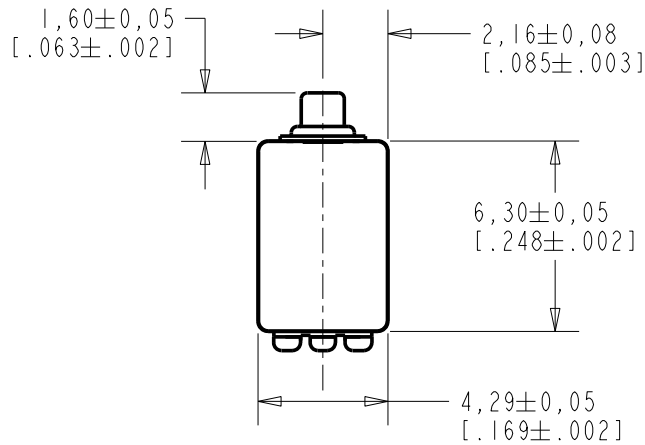
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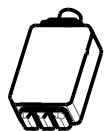
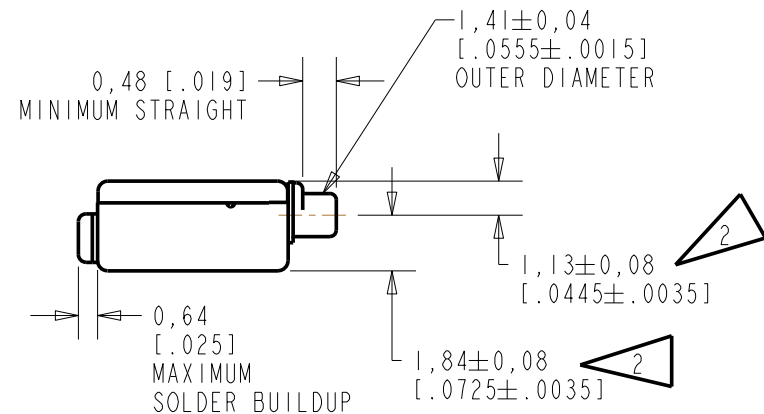
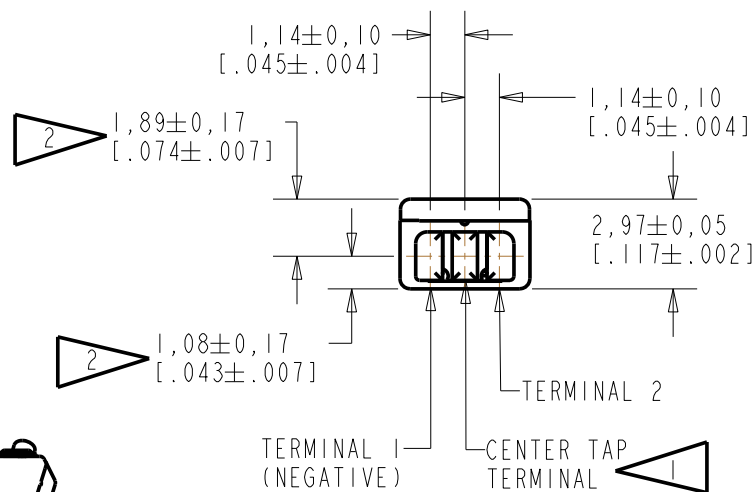


**ED-21950-000**  
**SHT 1.1**



NOTE:

- 1 A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO THE CENTER TAP TERMINAL, OR A NEGATIVE GOING VOLTAGE AT TERMINAL 1, RELATIVE TO THE CENTER TAP TERMINAL, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.
- 2 LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO  $\pm 0,17$  [.007].



SCALE 2:1

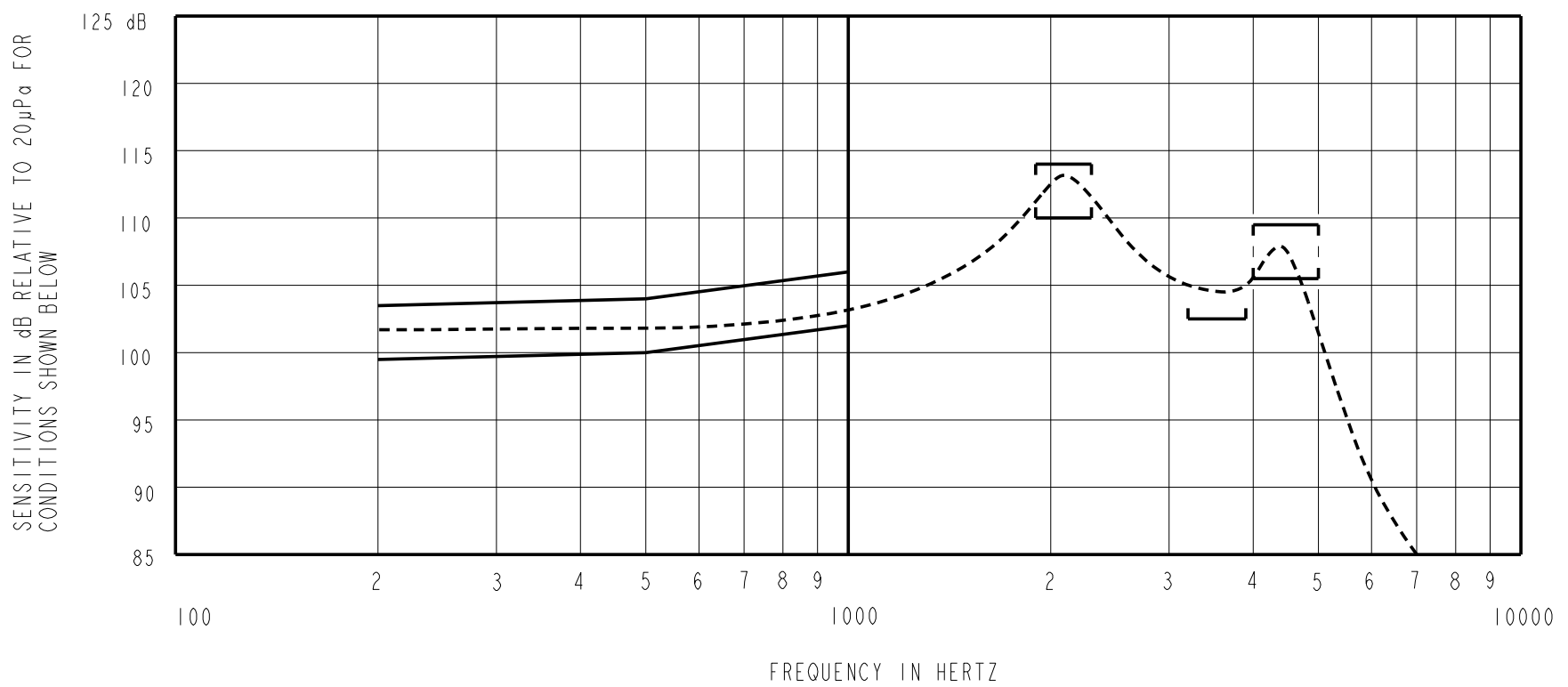
NOMINAL WEIGHT  
 .31 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

| Revision | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION |
|----------|-----------|---------------------|---------------|----------|
| B        | C10107990 | 7-31-08             | Active        | B        |
| A        | C10104767 | 9-11-06             |               |          |

|                      |  |                |                 |
|----------------------|--|----------------|-----------------|
| SCALE: 4:1           |  | DR. BY<br>MMM  | DATE<br>9-11-06 |
| DO NOT SCALE DRAWING |  |                |                 |
| TITLE: RECEIVER      |  | ED-21950-000   |                 |
| OUTLINE DRAWING      |  | SHT 1.1        |                 |
|                      |  | APP. BY<br>GJP | DATE<br>9-12-06 |

**KNOWLES ELECTRONICS**  
 ITASCA, ILLINOIS U.S.A.



NOTES:

1. MEASUREMENTS MADE USING 10m (.394") X 1mm (.039") ID TUBE CONNECTED TO A SIMULATED ANSI S3.7-1973 TYPE HA-3 COUPLER. (IEC 126).

2. SENSITIVITY

| FREQUENCY | MIN.  | MAX.  |
|-----------|-------|-------|
| 200       | 99.5  | 103.5 |
| 500       | 100.0 | 104.0 |
| 1000      | 102.0 | 106.0 |
| 1900-2300 | 110.0 | 114.0 |
| 3200-3900 | 102.5 | ---   |
| 4000-5000 | 105.5 | 109.5 |

- RESPONSE, IMPEDANCE, AND DISTORTION MEASUREMENTS MADE USING THE ELECTRICAL TEST CONDITIONS SHOWN BELOW.
- ELECTRICAL SOURCE IMPEDANCE MUST BE GREATER THAN 20 TIMES 1KHz IMPEDANCE FOR TEST CONDITIONS SHOWN BELOW.
- INDIVIDUAL SPECIFICATIONS.

| PORT LOCATION | IMPEDANCE OHMS ±15% |       | DCR @20°C OHMS ±10% | DISTORTION |         | ELECTRICAL TEST CONDITIONS |       |
|---------------|---------------------|-------|---------------------|------------|---------|----------------------------|-------|
|               | 1KHz                | 500Hz |                     | MAX. %     | FREQ Hz | AC mA RMS                  | DC mA |
| 12C           | 455                 | 255   | 127                 | 5          | 800     | 0.88                       | 0.00  |

| Revision | C.O. #    | Implementation Date | RELEASE LEVEL | REVISION |
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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

TITLE: **RECEIVER** ED-21950-000  
PERFORMANCE SPECIFICATION **SHT 2.1**

| DR. BY  | DATE    |
|---------|---------|
| MMM     | 9-11-06 |
| CK. BY  | DATE    |
| GJP     | 9-12-06 |
| APP. BY | DATE    |
| GJP     | 9-12-06 |