



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!



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# SPECIFICATIONS

| PARAMETERS                   | VALUES    | UNITS |
|------------------------------|-----------|-------|
| DIRECTIVITY                  | OMNI      | -     |
| SENSITIVITY                  | -44 ± 3   | dB    |
| STANDARD OPERATING VOLTAGE   | 2         | Vdc   |
| MAX OPERATING VOLTAGE        | 10        | Vdc   |
| CURRENT CONSUMPTION (MAX)    | 0.5       | mA    |
| IMPEDANCE                    | 2.2       | KOhm  |
| SIGNAL TO NOISE RATIO (MIN.) | 60        | dB    |
| OPERATING TEMPERATURE        | -20 ~ +70 | °C    |
| TERMINAL                     | LEAD WIRE | -     |
| INTERNAL CAPACITOR           | N/A       | pF    |

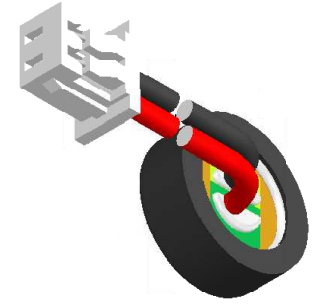
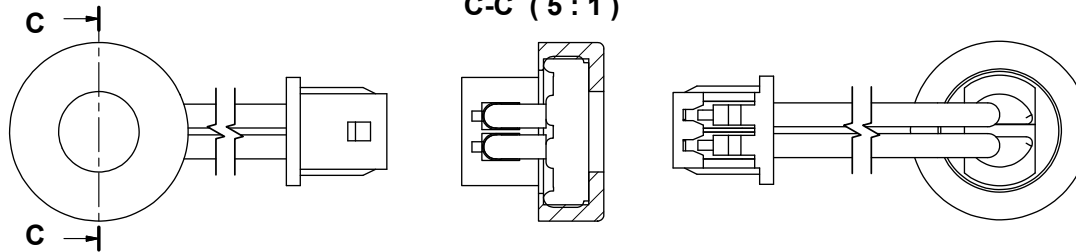
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# REVISION HISTORY

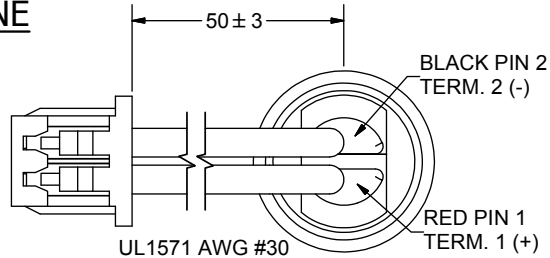
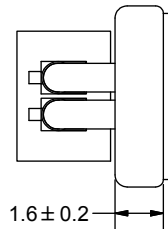
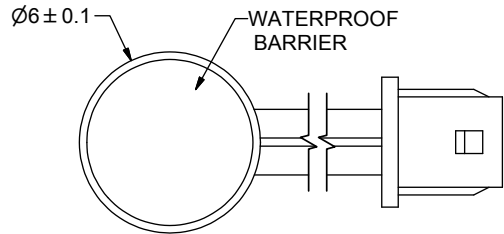
| LTR | DESCRIPTION                                 | DATE       | APPROVED |
|-----|---|------------|----------|
| -   | RELEASED FROM ENGINEERING                   | 10/10/2006 |          |
| A   | REVISED OPERATING TEMPERATURE AND IP RATING | 6/9/2008   | B.R.     |
| B   | REVISED TO INVENTOR 3-D DRAWING TEMPLATE    | 9/4/2008   | B.R.     |
| C   | ADDED PIN LOCATION                          | 7/14/2010  | B.R.     |

## ASSEMBLY

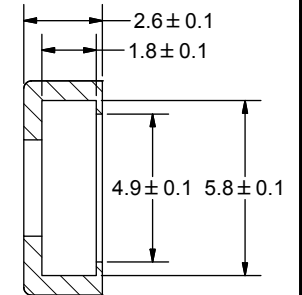
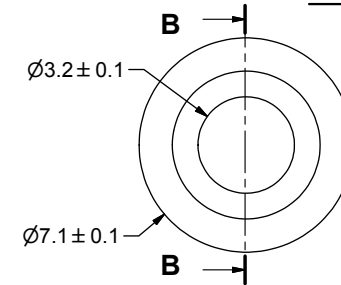
C-C (5:1)



## MICROPHONE



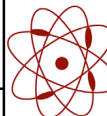
## BOOT



B-B (6:1)

### NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.
3. THIS PART IS RoHS 2002/95/EC COMPLIANT.
- Δ4. MOLEX CONNECTOR P/N: 51021-0200
5. PART IS IP57 RATED.
6. ASSEMBLY IS WASHABLE WITH BOOT IN PLACE.

| UNLESS OTHERWISE SPECIFIED:   | SIZE   | Designed by                | Date       | Checked by | Date       | Approved by | Date       | Drawn Date |       |
|---|--|----------------------------|------------|------------|------------|-------------|------------|------------|-------|
| DIMENSIONS ARE IN MILLIMETERS,<br>TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°. | A3   | J.D.                       | 10/10/2006 | B.R.       | 10/11/2006 | R.W.        | 10/11/2006 | 9/4/2008   |       |
| POW-1644L-LWC50-B-R.idw   |  <b>pui audio</b><br>a projects unlimited company | <b>POW-1644L-LWC50-B-R</b> |            |            |            |             |            | Edition    | Sheet |
|   |  | <b>Microphone</b>          |            |            |            |             |            | -          | 1 / 1 |