



Asymmetric Ultrasonic Sensor Specification

Series FHDA15A

Model Number: FHDA15A09LFPM

Version 1.0

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1. ELECTRICAL SPECIFICATIONS



Model No.: FHDA15A09LFPM

Description: AUS 15D 9H 10V PIN ALUMINIUM RoHS

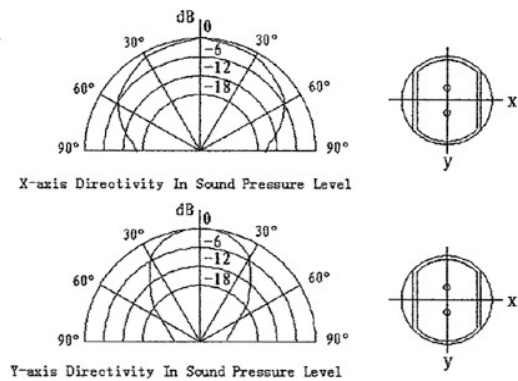
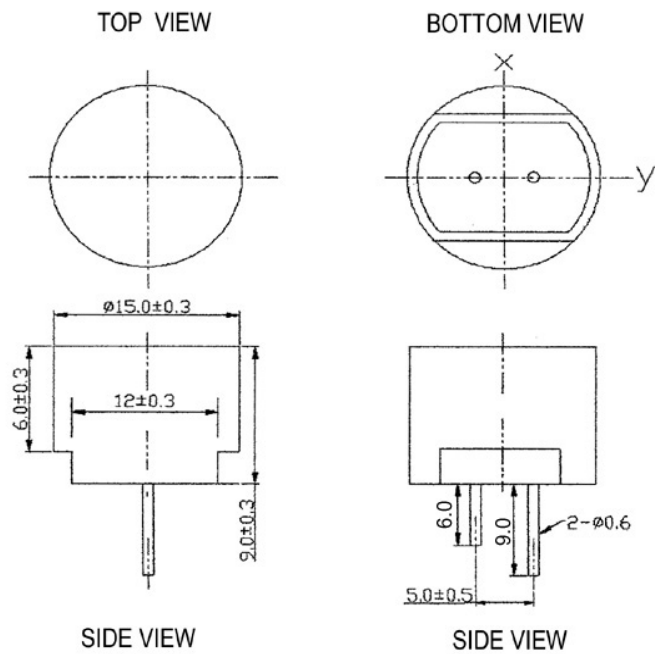
| MODEL NO. | FHDA15A09LFPM | |
|--|---|---|
| <i>CONSTRUCTION</i> | WATERPROOF TYPE | |
| <i>FUNCTION</i> | TRANSMITTER & RECEIVER | |
| <i>DIAMETER (A) ± 0.3</i> | mm | Ø 15.0 |
| <i>HEIGHT (B) ± 0.3</i> | mm | 9.0 |
| <i>SOUND PRESSURE LEVEL</i> (0dB = 0.0002 ubar) | Min. 95.0 dB (10.0 V rms Sine Wave / 30.0 cm) | |
| <i>SENSITIVITY</i> | Min. -82.0 dB (v / ubar) | |
| <i>CENTER FREQUENCY</i> | Hz | 40000 ± 1000 |
| <i>Directivity (deg) X - axis</i> | 120.0 ± 15.0 | |
| <i>Directivity (deg) Y - axis</i> | 60.0 ± 10.0 | |
| <i>CAPACITANCE AT 1KHz</i> | pF | 1800 ± 15 % |
| <i>ALLOWABLE INPUT VOLTAGE</i> | P-P | 140V (40 KHz) Pulse width 0.5 ms / Interval 20 ms |
| <i>HOUSING MATERIAL</i> | ALUMINUM | |
| <i>OPERATING TEMPERATURE</i> | ° C | - 40.0 ~ + 80.0 |
| <i>WEIGHT</i> | 3.0 g | |

2. PHYSICAL DIMENSION



All dimensions stated are in mm

Tolerance: ± 0.5 mm



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Revision History

| Revision | Date | Description |
|----------|---------|----------------|
| 1.0 | 2012.12 | First Released |
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