



Symmetric Ultrasonic Sensor Specification

Series FHDS18A

Model Number: FHDS18A12LFPM

Version 2.0

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1. ELECTRICAL SPECIFICATIONS



Model No.: FHDS18A12LFPM

Description: SUS 18D 12H 10V PIN ALUMINIUM RoHS

MODEL NO.	FHDS18A12LFPM	
CONSTRUCTION	Waterproof Type	
FUNCTION	Transmitter & Receiver	
DIAMETER (A) ± 0.3	mm	$\varnothing 18.0$
HEIGHT (B) ± 0.3	mm	12.0
SOUND PRESSURE LEVEL (0dB = 0.0002 ubar)	Min. 100.0 dB (10.0 V rms Sine Wave / 30.0 cm)	
SENSITIVITY	Min. - 82.0 dB (v / ubar)	
CENTER FREQUENCY	Hz	40000 \pm 1000
Directivity (deg)	80.0 \pm 15.0	
CAPACITANCE AT 1KHz	pF	1800 \pm 15 %
ALLOWABLE INPUT VOLTAGE	p-p	140V (40 KHz) Pulse width 0.5 ms / Interval 20 ms
HOUSING MATERIAL	ALUMINUM	
OPERATING TEMPERATURE	$^{\circ}$ C	- 40.0 ~ + 80.0
WEIGHT	3.0 g	

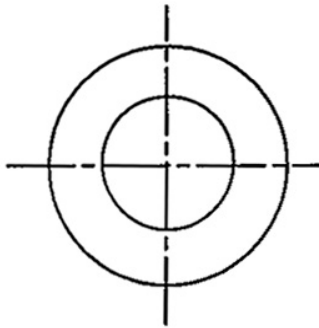
2. PHYSICAL DIMENSION



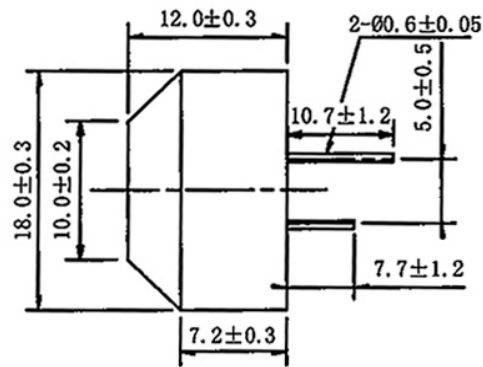
All dimensions stated are in mm

Tolerance: $\pm 0.5\text{mm}$

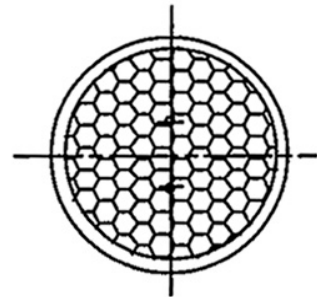
TOP VIEW



SIDE VIEW



BOTTOM VIEW



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Revision History

Revision	Date	Description
1.0	2009.01	First Released
2.0	2009.02	Modify Electrical Spec. & Draw

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