

1 MHz Level Sensor Transducer



Model: LPY1

P/N: H2KLPY11000600

Ultrasonic transducer is designed to cover 1MHz frequency. The transducer works as a signal transmitting and receiving unit. The transducer works with gel pad (or dry coupling) is particularly for non-invasive bottom-up type liquid level sensors for measuring the level of liquid in a plastic container or vessel.



Features

Blind zone

Bottom-up type

Dry gelpad

Specifications

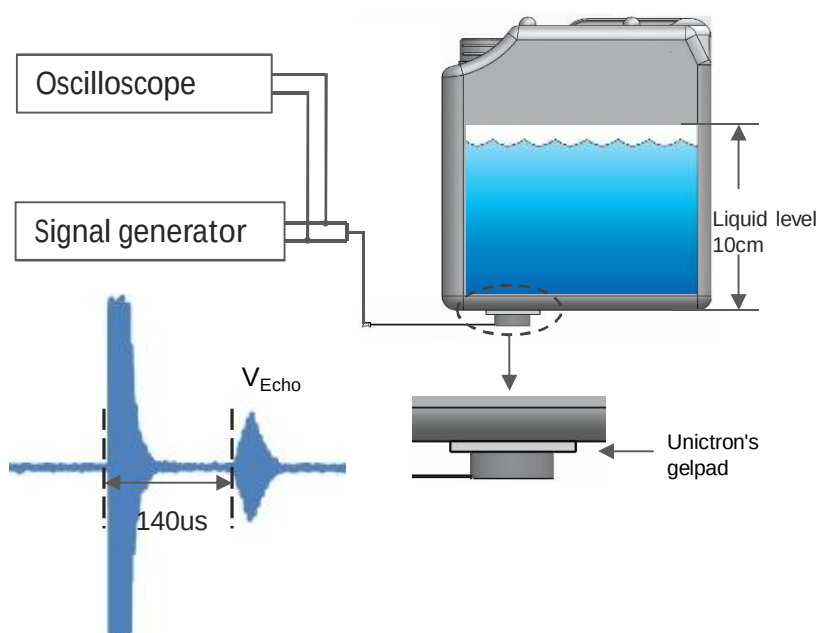
Operation Frequency	1	MHz
Echo Voltage	>50	mV
Capacitance at 1 kHz	1250 ± 20%	pF
Maximum Driving Voltage	50	Vpp
Operating temperature	-20~70	°C
Storage temperature	-30~80	°C

Measured at temperature :25±5°,40~70%RH

Sensitivity measurement diagram

Sensitivity measurement

Liquid level: 10cm (olive oil) / container: HDPE



Drive Signal (VDriving): 1MHz 3.3v 20 pules, Drive interval: 10ms

Echo Signal (VEcho) : For 10cm olive oil level, echo signal appears at around at 140 us

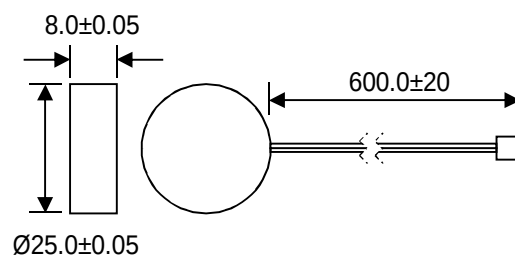
Dimensions

Housing material: Aluminum alloy

Wire: 105°C 300V 30AWG

Sealing Glue: PU

Unit: mm



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