

## Miniature Hydrophone

# PZN-PT Single Crystal Miniature Hydrophone

of High Sensitivity and Reduced Noise

A direct benefit of the large piezoelectric coefficients (of 2000-2800 pC/N) and low dielectric loss (of <0.003) of PZN-PT single Crystal; no ageing poser.



mHY-197-30-500 (CE)

mHY-197-35-500

mHY-195-40-1000

### Performance characteristics at a glance

Product Number	mHY-197-30-500 (Cost-effective)	mHY-197-35-500	mHY-195-40-1000
Dimensions	Φ10 x 27mm	Φ10 x 32mm	Φ10 x 32mm
Peak Sensitivity (re 1 V/μPa)	-182 to -183 dB (@ 80-85 kHz)	-182 to -183dB (@ 80-85 kHz)	-180 dB (@ 85 kHz)
Off-Resonance Sensitivity (re 1 V/μPa)	-196 to -198 dB	-196 to -198 dB	-194 to -196 dB
Working Frequency	100 Hz to 40 kHz	100 Hz to 50 kHz	100 Hz to 60 kHz
Capacitance @ 1 kHz	0.5 nF	1.0 nF	0.5 nF
Max. Operating Depth	500m	500m	1000m
Horizontal Beam Pattern	Omni up to 30kHz	Omni up to 35kHz	Omni up to 40kHz
Vertical Beam Width	Conical; 60°@ 30kHz	Conical; 230°@ 35kHz	Conical; 150°@ 40kHz
Weight	5.6 g	6.1 g	6.1 g

*Please contact us for other details and customized products.*

Mircofine reserves the right to change specifications without notice.  
Please see back page for Acoustical Measurement plots.



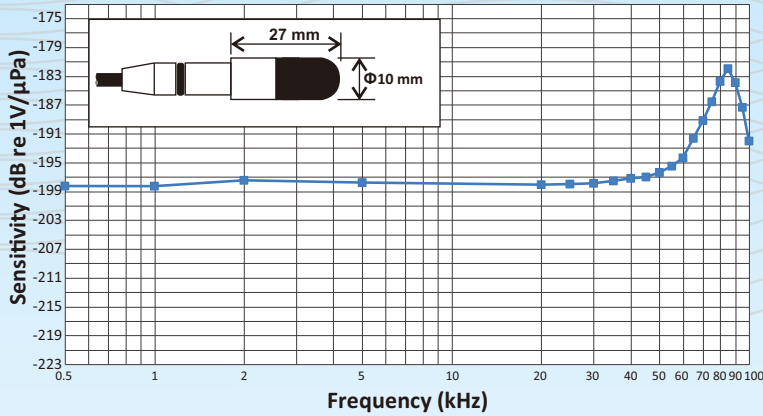
**Microfine Materials Technologies Pte Ltd**

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Tel : +65 6264 0112 Website : www.microfine-piezo.com

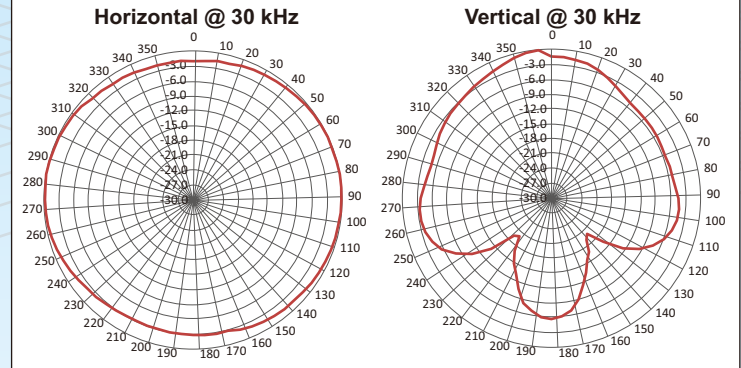
Please contact us for other details.

**All Enquiries:**  
sales@microfine-piezo.com

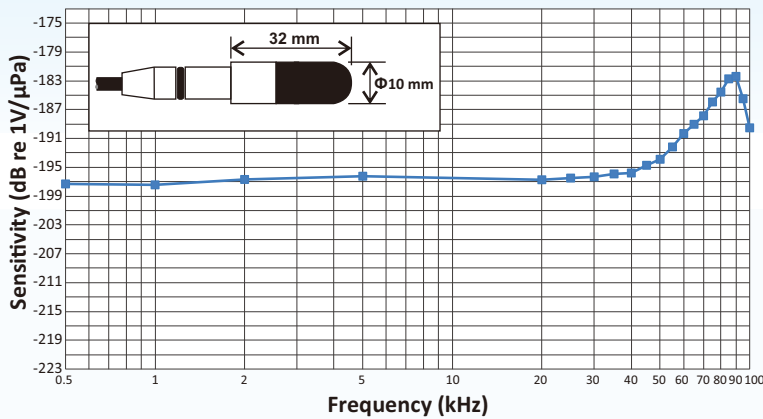
## mHY-197-30-500 (CE)



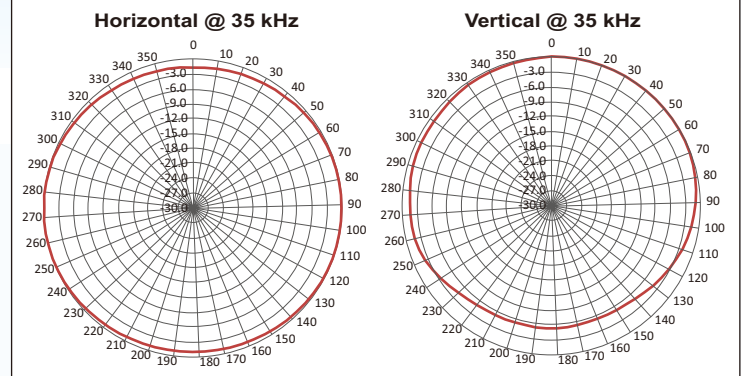
### Beam Pattern



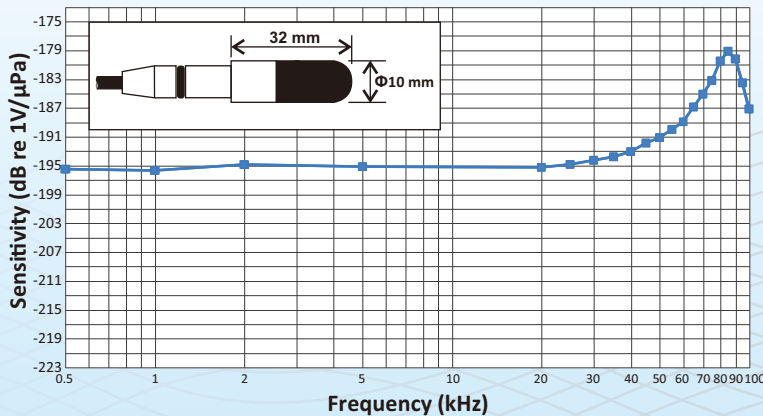
## mHY-197-35-500



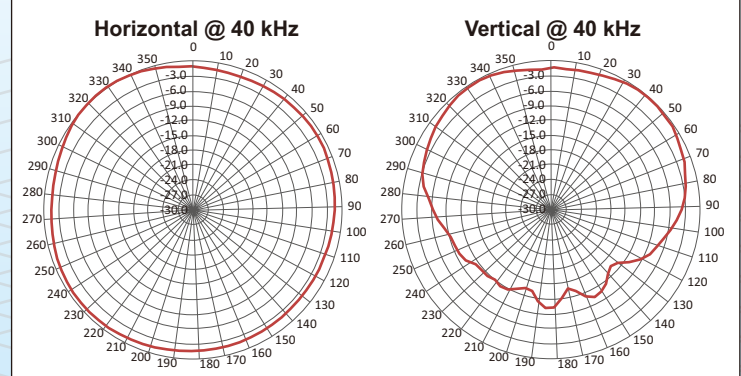
### Beam Pattern



## mHY-195-40-1000



### Beam Pattern



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