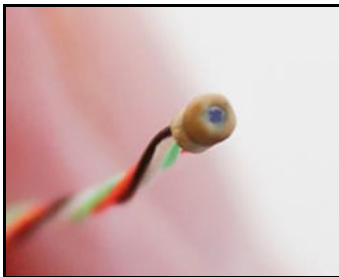


## Ultra small pressure sensor for harsh environment High Temperature

1,2 mm up to 185C°

MP-1.20-WOT-YYY-A-ZZ



### MODEL DEFINITION

WOT: without tube is the standard product  
YYY: pressure range in bar (002, 004, 007) Or in PSI (030, 060, 100)  
A: absolute pressure measurement  
ZZ: ST: standard temperature up to 100C°  
HT: high temperature up to 185C°

### OVERVIEW

- Outer diameter 1.2 mm
- From 2 to 7 Bar Absolute pressure sensor
- Burst pressure 7 bar
- Wide temperature range up to 185C°
- Harsh environment
- Customized solution possible
- mVolt output
- Highest resonance frequency on the market
- Amplification can be done for a special request

### APPLICATIONS

- Instrumentation (ie: Automotive, ...)
- Aerodynamic testing (ie: wind tunnel)
- Industrial process monitoring
- Pumps
- Biomedical
- Oil and gas
- ...

### Resonance frequency

- Highest resonance frequency of 2.7 MHz of the market
- The tests have been done on a Polytec MSA-500 using Scanning laser-Doppler vibrometry.

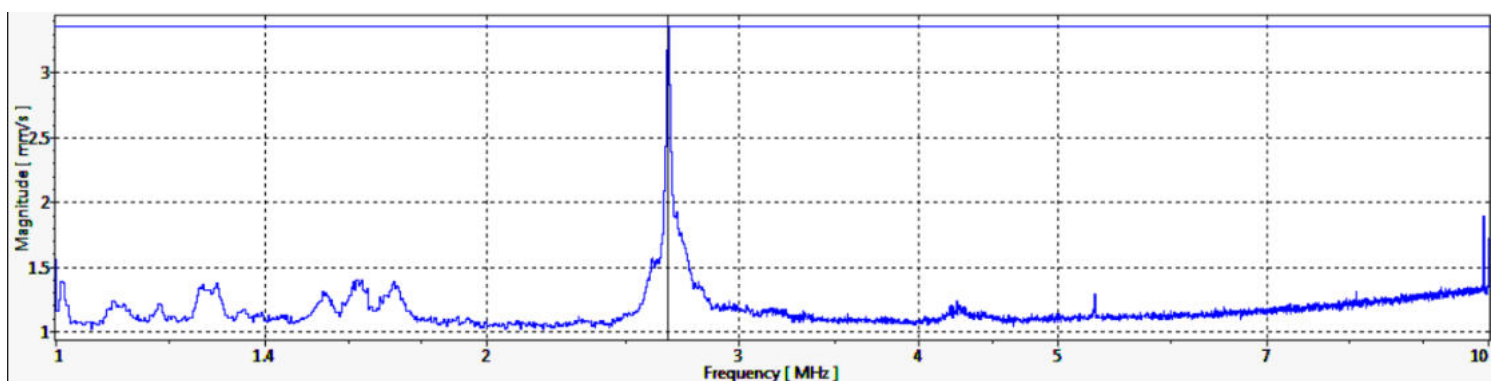


Figure 1: Result for the 30 PSI MEMS absolute pressure sensors

## PART NUMBER

MP-1.20-WOT-YYY-A-ZZ

Outer diameter	1.2mm
Pressure range <sup>1</sup>	0-2 bar   0-4 bar   0-7 bar 0-30 psi   0-60 psi   0-100 psi
Max nominal pressure	2 bar   4 bar   7 bar 30 psi   60 psi   100 psi
Proof pressure <sup>1</sup>	3 * nominal
Burst pressure <sup>1</sup>	5 * nominal
Bridge resistance	6.2 k $\Omega$ typical / (5-7 k $\Omega$ )
Vout span <sup>4</sup>	100 mV typical / (65-135mV)
Excitation voltage	5V
Tmax <sup>2</sup>	100 Celsius (ST) - 185 Celsius (HT)
Accuracy <sup>3</sup>	0.25% @ FS
Signal amplification	None
Fluid	Dry air or inert gas

### Remark :

- All sensors are provided with a control sheet given pressure level versus mVolt @ 25 C° under a supply voltage of 5 Volt.
- Temperature measurement/compensation available. [See our tutorial on our website.](#)

- 1 | Absolute pressure
- 2 | TMCL qualification tests - JEDEC JESD22-A104  
« temperature cycling » @ Tmax
- 3 | Accuracy @25Celsius
- 4 | Amplification can be done for a special request

## CONTACT

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