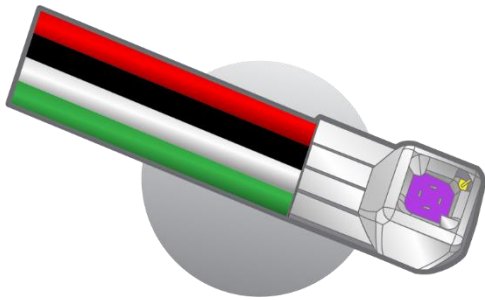


## Ultra small pressure sensor for harsh environment Standard Temperature - Flat

1,25 mm up to 100C°

MP-1.25-WOT-YYY-A-ST-FLAT



### MODEL DEFINITION

**WOT:** without tube is the standard product

**YYY:** pressure range in bar (002, 004, 007)

**A:** absolute pressure measurement

**ST:** high temperature up to 100C°

**FLAT:** flat shape

### OVERVIEW

- L x W : 2.45mm x 1.25mm
- From 2 to 7 bar Absolute pressure sensor
- Burst pressure 7 bar
- Wide temperature range up to 100C°
- 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.

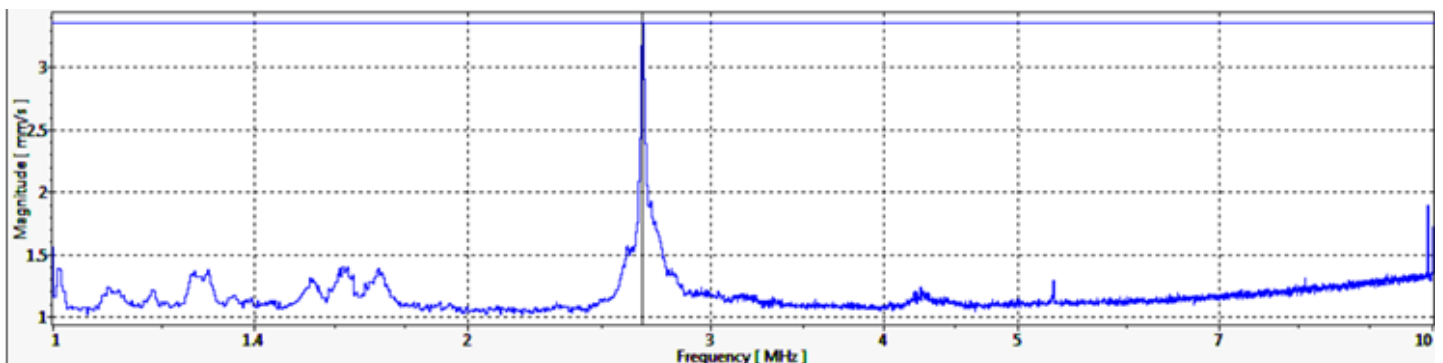


Figure 1: Result for the 30 PSI MEMS absolute pressure sensors

PART NUMBER	MP-1.25-WOT-YYY-A-ST-FLAT
L x W	2.45 mm x 1.25 mm
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(R)	6,2 kΩ typical / (5-7 kΩ)
Vout span <sup>4</sup>	100 mV typical / (65-135mV)
Excitation voltage	5V
Tmax <sup>2</sup>	100 C°
Accuracy <sup>3</sup>	0,25% @ FS
Signal amplification	None

**Remark:**

- All sensors are provided with a control sheet given pressure level versus mVolt @ 25C° under a supply voltage of 5 Volt.
- Temperature measurement/compensation available.

**1** | Absolute pressure

**2** | TMCL qualification tests – JEDEC JESD22-A104 « temperature cycling » @ Tmax

**3** | Accuracy @25 Celsius

**4** | Amplification can be done for a special request