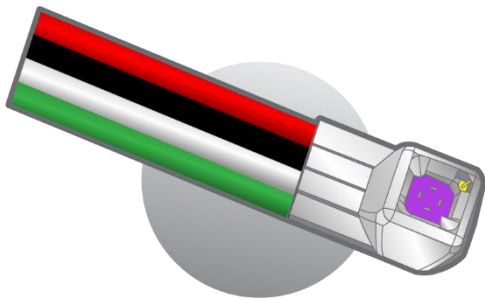


Ultra small pressure sensor for harsh environment High Temperature - Flat

1,25 mm up to 185C° MP-1.25-WOT-YYY-A-HT-FLAT



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
HT: high temperature up to 185C°
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 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.

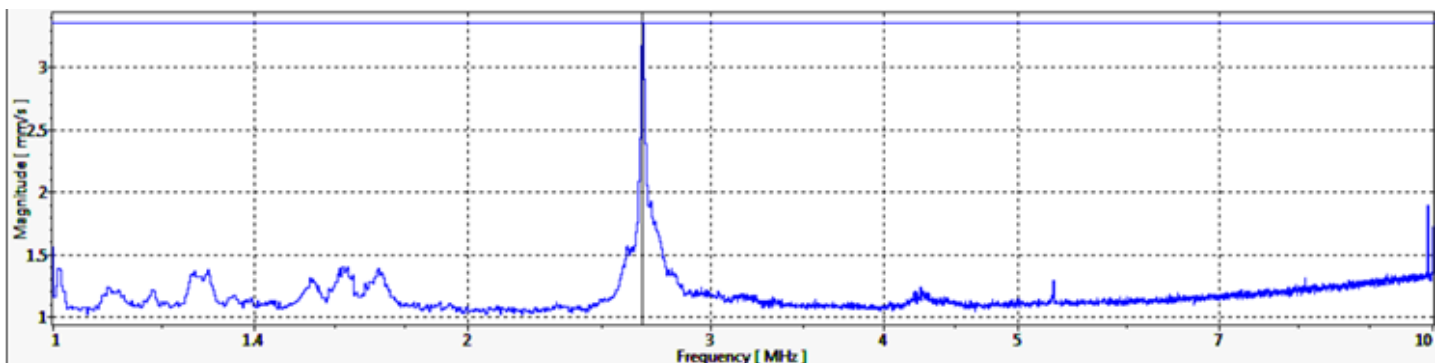


Figure 1: Result for the 30 PSI MEMS absolute pressure sensors

PART NUMBER	MP-1.25-WOT-YYY-A-HT-FLAT
L x W	2.45 mm x 1.25 mm
Pressure range ¹	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 ¹	3 * nominal
Burst pressure ¹	5 * nominal
Bridge resistance (R)	6,2 kΩ typical / (5-7 kΩ)
Vout span ⁴	100 mV typical / (65-135mV)
Excitation voltage	5V
Tmax ²	185 C°
Accuracy ³	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