Ultra small pressure sensor for harsh environment Standard Temperature - Flat

1,25 MM UP TO 100°C

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

OVERVIEW

- L x W 2.45mm x 1.25mm
- From 2 to 10 Bar Absolute pressure sensor
- Burst pressure 10 bar
- Wide temperature range up to 100°C
- Harsh environment
- Customized solution possible
- mVolt output

MODEL DEFINITION

WOT: without tube
is the standard product
YYY: pressure range in bar
(002, 004, 010)
A: absolute pressure
measurement
ST: high temperature
up to 100°C
FLAT: flat shape

APPLICATIONS

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

Signal conditioning
(On request)

External zone

Connection to customer monitoring system

Measurement zone
PART NUMBER: MP-1.25-WOT-YYY-A-ST-FLAT

<table>
<thead>
<tr>
<th>L x W</th>
<th>2.45 mm x 1.25 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure range¹</td>
<td>0-2 bar 0-4 bar 0-10 bar 0-30 psi 0-60 psi 0-100 psi</td>
</tr>
<tr>
<td>Max nominal pressure</td>
<td>2 bar 4 bar 10 bar 30 psi 60 psi 100 psi</td>
</tr>
<tr>
<td>Proof pressure¹</td>
<td>3 * nominal</td>
</tr>
<tr>
<td>Burst pressure¹</td>
<td>5 * nominal</td>
</tr>
<tr>
<td>Bridge resistance</td>
<td>6.2 kΩ typical / (5-7 kΩ)</td>
</tr>
<tr>
<td>Vout span</td>
<td>100 mV typical / (65-135mV)</td>
</tr>
<tr>
<td>Tmax²</td>
<td>185 Celsius</td>
</tr>
<tr>
<td>Accuracy³</td>
<td>0.25% @ FS</td>
</tr>
<tr>
<td>Signal amplification</td>
<td>None</td>
</tr>
<tr>
<td>Fluid</td>
<td>Dry air or inert gas</td>
</tr>
</tbody>
</table>

Remark:
- All sensors are provided with a control sheet given pressure level versus mVolt @ 25°C under a supply voltage of 5 Volt.
- Accuracy of passive compensation 2%FS (passive compensation has to remain @ 25°C) (in option)
- Active compensation (nonstandard request – Highest accuracy but lowest acquisition frequency)

1 Absolute pressure
2 TMCL qualification tests – JEDEC JESD22-A104 « temperature cycling » @ Tmax
3 Accuracy @ 25 Celsius