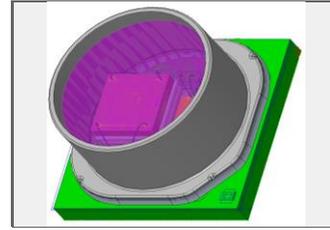


X214676MPR

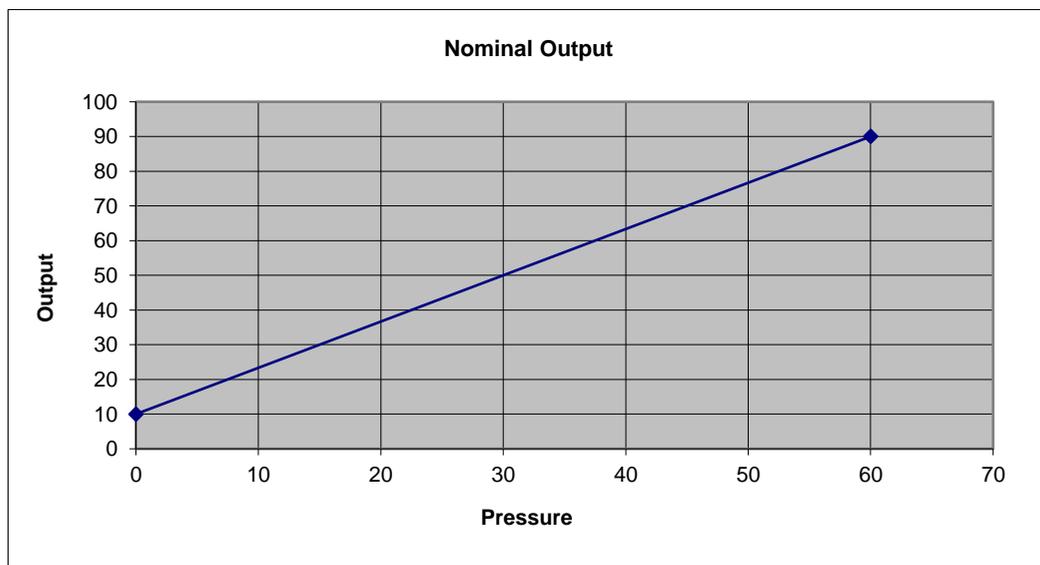
- Fully calibrated and temperature compensated
- Calibrated from 0 to 60 PSI Absolute
- $\pm 3\%$ FSS " Total Error Band after customer zero adjust")
- I2C Output
- 3.3 Vdc Operating voltage
- Low power consumption (<10 mW typ.), energy efficient
- REACH and RoHS compliant
- Compatible with liquid media
- Meets IPC/JEDEC J-STD020E Moisture Sensitivity Level 1



X214676MPR pressure sensors are designed to measure absolute pressures for air, non-corrosive gases and liquids and are specially calibrated to optimize performance over the specified pressure range.

The internal components are protected by a fluorosilicone gel. ASIC calibrated 240Hz typical update rate

Nominal Transfer Function



Low Calibration Pressure	0	PSI
Output at Low Calibration Pressure	10	% 2^{24}
High Calibration Pressure	60	PSI
Output at High Calibration Pressure	90	% 2^{24}

Absolute Maximum Ratings

Supply voltage	-0.3 V to 3.6 V
Minimum Operating voltage	1.8 V
Voltage on output pin	-0.3 V to $V_{supply} + 0.3$ V
Lead soldering temperature	250°C, 15 seconds max.
Maximum reflow cycles	2
Storage temperature range	-40°C to 85°C
Overpressure	250 PSI
Burst pressure	275 PSI

PRELIMINARY

Operating Specifications

Compensated Supply voltage	3.3 V
Supply current in standby mode	0.0005 mA Typical
Supply current in active mode	1.7 mA Typical
Compensated temperature range	0°C to 50°C
Operating temperature range	-40°C to 85°C
Total Error Band after Customer Auto-Zero	±3 %FSS
<small>Combined error from calibration, accuracy and temperature effects after Customer zero adjust.</small>	
Accuracy	±0.25% FSS Best Fit Straight Line
<small>Includes non-linearity, hysteresis and non-repeatability at 25°C.</small>	
Response Time	4.166 ms Typical
Digital Interface Standard	I2C Output (Address0x28)
Resolution	14 Bit

Environmental Specifications

Humidity	
all extrnal surfaces	0% to 95% RH, non-condensing
internal surfaces	0% to 100% RH, condensing
Vibration	MIL-STD-202G, Method 204D, Condition B (10 g, 10 Hz to 2 kHz)
Shock	MIL-STD-202G, Method 213B, Condition C (50 g, 6 ms duration)
ESD	4kV, Human Body Model

For for more information, including dimensions and pinout information, please refer to the MPR platform datasheet.
Except as shown on this document, specifications for MPRSL0030PA00002A Apply

PRELIMINARY
Specifications subject to change

Datasheet creation date:

12/3/2019

Created by MPR Configurator 2.7

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