



CPM 602

Piezoresistive Monolithic Ceramic Pressure Sensor

- Excellent chemical resistance
- Easy mounting
- Pressure ranges
30 to 6000 psi gauge

Standard Pressure Ranges

PSI ¹⁾	bar	Proof pressure		Admissible negative pres- sure	Burst pressure		Output signal
		[PSI ¹⁾ / bar]			[PSI ¹⁾ / bar]		
30	2	60	4	vacuum resistant	120	≥ 8	1.8 to 3.4
75	5	150	10		300	≥ 20	2.0 to 3.5
150	10	300	20		525	≥ 35	2.4 to 4.0
300	20	600	40		900	≥ 60	2.8 to 4.2
750	50	1500	100		2100	≥ 140	2.7 to 4.0
1500 ³⁾	100	2250	150		4500	≥ 300	2.0 to 3.2
3000 ³⁾	200	4500	300		6000	≥ 400	1.8 to 3.3
6000 ³⁾	400	7500	500		9750	≥ 650	1.5 to 3.0
other on request							

Reference Conditions

Supply voltage	2 to 30 V _{DC} stabilized (I _{max.} = 4mA)
Bridge resistance	11 kΩ ± 30 %
Reference temperature	25 °C
Measuring supply voltage	10 V _{DC}

Performance Characteristics

Offset	- 0.4 to 0.0 mV/V (Other nominal values available on request)
Total error (non-linearity, hysteresis, non-repeatability)	Pressure ranges: ≤ 750 psi: ≤ ± 0.4 % FS (terminal based) Pressure ranges: > 750 psi: ≤ ± 0.8 % FS typ. (1.5 % FS max.) (terminal based)
Long term stability	≤ ± 0.3 % FS/ year (at reference conditions)
TC Offset (TC0)	≤ ± 0.02 % FS / °C ²⁾
TC Span (TCS)	≤ - 0.012 % FS / °C ²⁾

Environmental Specification

Temperature range	- 40 to 135 °C
Storage temperature range	- 50 to 150 °C
Compensated temperature range	0 to 85 °C

1) PSI values around rounded and for reference only

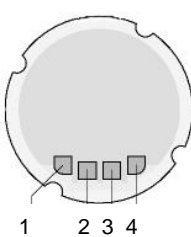
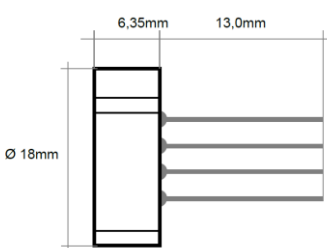
2) Over compensated temperature range

3) Only sealed gauge available

CPM-602

Ceramic Pressure Sensor

Specifications

Electrical connection	
Standard	Pins, pitch 0.1 inch / 2.54mm
Miscellaneous	
Media wetted parts	Ceramic Al ₂ O ₃ 96 %
Weight	approx. 5 g
Dimension	Ø = 18 ± 0.1 mm d = 6.35 ± 0.1 mm
Mechanical	
 <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <p>1 + IN</p> <p>2 - OUT</p> <p>3 GND</p> <p>4 + OUT</p> </div> 	

Ordering code			
CPM602 - 			
Type of pressure	gauge G		
Pressure ranges			
30 psi / 2 bar	0 3 0		
75 psi / 5 bar	0 7 5		
150 psi / 10 bar	1 5 0		
300 psi / 20 bar	3 0 0		
750 psi / 50 bar	7 5 0		
1500 psi / 100 bar	1 K 5		
3000 psi / 200 bar	3 K 0		
6000 psi / 400 bar	6 K 0		
Electrical connection			
Solder pads tinned, pitch 0.1 inch / 2.54mm ⁴⁾	2 0 1		
Pins, pitch 0.1 inch / 2.54mm	2 0 2		
Others – on request	9 9 9		
Options			
Standard	0 0 1		

4) minimum order quantity required

This data sheet contains product specifications, properties are not guaranteed. Subject to be change without notice.

Mouser Electronics

Authorized Distributor

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