

The PMD Series is a thru-hole mountable device suitable for high-volume, low to medium pressure applications.

COMPANY: Merit Sensor is a leader in piezoresistive pressure sensing and partners with clients to create high performing solutions for a variety of applications and industries.

SENTIUM: Merit Sensor products incorporate a proprietary Sentiium® technology, which was developed to provide a best-in-class operating temperature range (-40°C to 85°C) and superior stability.

TECHNOLOGY: Merit Sensor utilizes a piezoresistive Wheatstone bridge in a design that anodically bonds glass to a chemically etched silicon diaphragm. All products are RoHS compliant.

CAPABILITIES: Merit Sensor designs, engineers, fabricates, dices, assembles, tests, sells and services die and packaged products from a state-of-the-art facility near Salt Lake City, Utah.



FEATURES

Range	5 to 50 psi (0.34 to 3.5 bar; 34.5 to 345 KPa)
Type	Absolute, gage, differential and vacuum
Media	Clean, dry air and non-corrosive gases
Packaging	Substrates, covers, gels, etc.
Customization	Sensitivity, resistance, bridge, constraint, etc.

BENEFITS

Performance	Enjoy best-in-class performance due to Merit's proprietary Sentiium technology.
Cost	Save money over time with high-performing die
Security	Feel confident doing business with an experienced company backed by a solid parent company (NASDAQ: MMSI)
Speed	Get to market quickly with creative and flexible solutions.
Service	Experience prompt, personal and professional support.

PMD Series Part Number Configurator



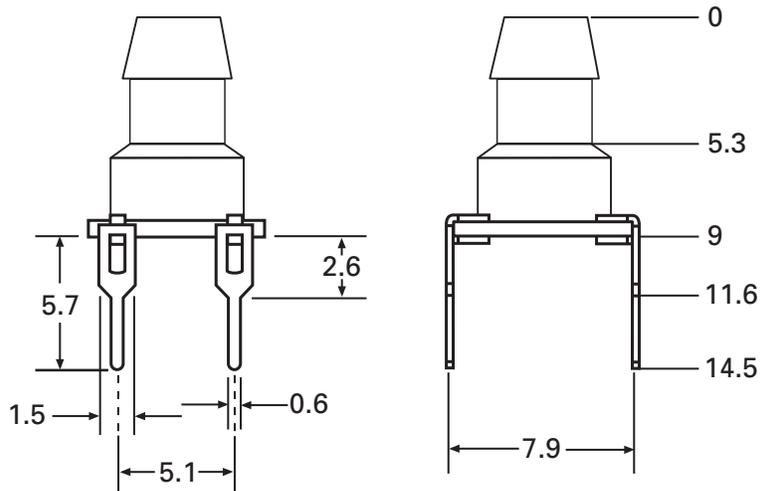
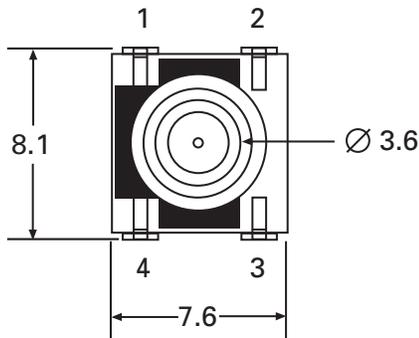
Example: PMDG-005 is gage, 5psi

PMD Series Standard Part Numbers

PMDG-005	PMDA-015	PMDG-050
PMDA-005	PMDG-030	PMDA-050
PMDG-015	PMDA-030	

SPECIFICATIONS

Parameter	Minimum	Typical	Maximum	Units	Notes
Electrical & Environmental					
Excitation		5	15	V	Maximum: 3 mA
Impedance	4000	5000	6000	Ω	
Operating Temperature	-40		85	°C	
Storage Temperature	-55		100	°C	
Performance					
Offset	-5	0	5	mV/V	Zero pressure; gage only; @25°C
Non-linearity	-.2	0	.2	% FSO	Best Fit Straight Line; @25°C
Pressure Hysteresis	-.1	0	.1	% FSO	@25°C
Temp Coeff – Zero	-25	0	25	μV/V/°C	-40°C to 85°C
Temp Coeff – Resistance	2300	2800	3300	PPM/°C	-40°C to 85°C
Temp Coeff – Sensitivity	-1500	-2200	-2500	PPM/°C	-40°C to 85°C
Thermal Hysteresis	-.25	0	.25	% FSO	Zero pressure
Long-Term Stability	-.25	0	.25	% FSO	
Burst Pressure	3X				Full scale pressure
Full-Scale Output (@ 5 volts)					
5 psi (0.34 bar; 34.5 KPa)	46	57.5	69	mV	Other outputs available upon request
15 psi (1 bar; 103 KPa)	90	112.5	135	mV	
30 psi (2.1 bar; 207 KPa)	120	150	180	mV	
50 psi (3.5 bar; 345 KPa)	100	125	150	mV	

DIMENSIONS AND ELECTRICAL (millimeters)


Pin Out	
1	+ E
2	+ Out
3	- E
4	- Out