

The AP Series is calibrated at room temperature using laser trimmed resistors and is 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.

TECHNOLOGY: Merit Sensor utilizes a piezoresistive Wheatstone bridge with a chemically etched silicon diaphragm. All products are RoHS compliant.

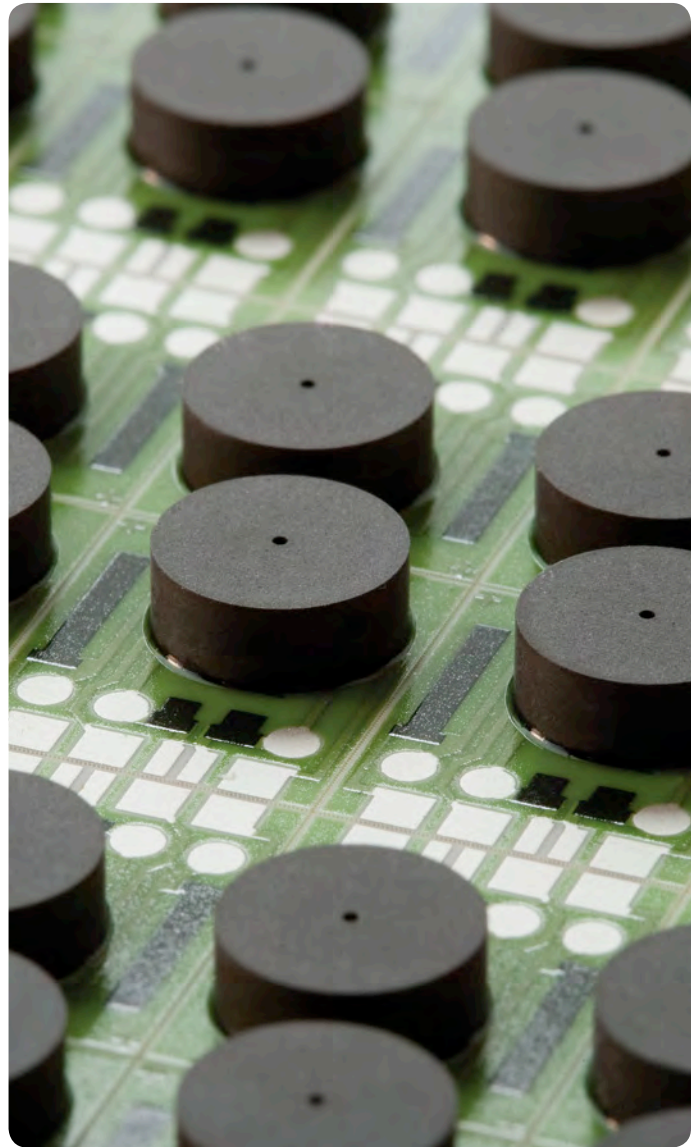
CAPABILITIES: Merit Sensor designs, engineers, fabricates, dices, assembles, tests, sells and services die and packaged products from a state-of-the-art facility near Salt Lake City, Utah.

FEATURES

Range	-15 to 300 psi (-1 to 20.7 bar; -103 to 2,068 KPa) Also available in higher pressures
Type	Gage
Media	Air, gases and liquids
Packaging	Packaged die with gel on ceramic substrate
Flexibility	Custom options available

BENEFITS

Performance	Enjoy best-in-class performance due to Merit's proprietary Sentium 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



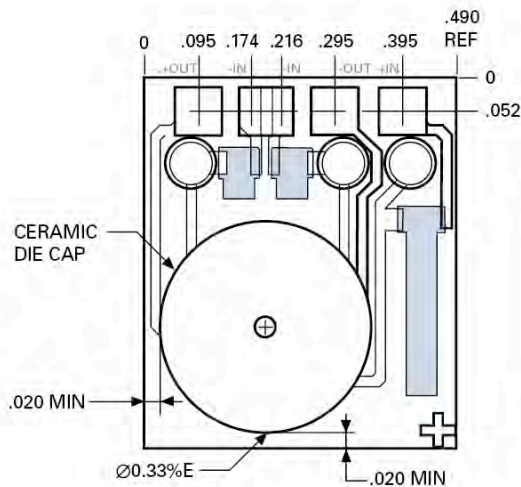
AP Series Standard Part Number

505071004

SPECIFICATIONS

Parameter	Minimum	Typical	Maximum	Units	Notes
General					
Pressure Range	-15		300	PSI	
Burst Pressure	3X			Full scale pressure	
Electrical (22°C unless otherwise stated)					
Input Excitation	2.4	5	6	VDC	
Input Impedance	8000	12000	16000	ohms	
Output Impedance	4000	5000	6000	ohms	
Environmental					
Temp (Comp/Operating)	10	25	40	°C	
Temperature (Storage)	-25		60	°C	
Storage Life			5	Years	
Performance					
Offset	4.5	6.0	7.5	mV/5V	
Sensitivity	64.868	65.523	66.178	uV/V/psi	
Linearity	-1	0	1	%FSO (BFSL)	
Hysteresis	-1		1	%FSO	
Accuracy*	-2	0	2	%FSO	

* The combined effect of Sensitivity, Repeatability, Nonlinearity, and Hysteresis errors over the temperature range of 25°C to 15°C, and 25°C to 40°C, expressed as a percent of Full Scale pressure (%FS).

DIMENSIONS (inches)
CIRCUIT SIDE VIEW

GEL SIDE VIEW
