



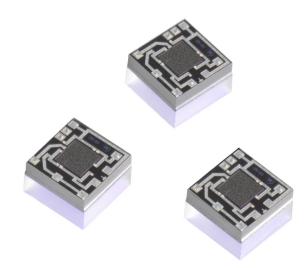
The D Series is ideal for high-volume, medium-pressure applications.

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 Sentium[®] technology, developed to provide a best-in-class operating temperature range (-40°C to 150°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, and tests products from a state-of-the-art facility near Salt Lake City, Utah.

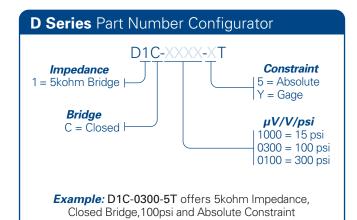


FEATURES

Range	15 to 300 psi (1 to 20.7 bar; 103 to 2,068 KPa)
Туре	Absolute, gage, differential and vacuum
Media	Clean, dry air and non-corrosive gases
Shipping	Wafers on tape, waffle pack
Flexibility	Sensitivity, resistance, bridge, constraint, etc.

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.		



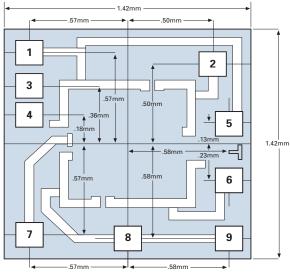


D Series

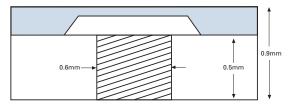
SPECIFICATIONS

Parameter	Minimum	Typical	Maximum	Units	Notes			
Electrical & Environmental								
Excitation (In)		5	15	V	Maximum: 3 mA			
Impedance	4000	5000	6000	Ω				
Operating Temperature	-40		150	°C	Sentium [®] technology			
Storage Temperature	-55		160	°C				
Performance								
Offset	-10	0	10	mV/V	Zero pressure; gage only; @25°C			
Non-linearity	-0.25	0	0.25	% FSO	Best Fit Straight Line; @25°C			
Pressure Hysteresis	-0.1	0	0.1	% FSO	@25°C			
Temp Coeff – Zero	-25	0	25	μV/V/°C	-40°C to 150°C			
Temp Coeff – Resistance	2500	3000	3500	PPM/°C	-40°C to 150°C			
Temp Coeff – Sensitivity	-1500	-2000	-2500	PPM/°C	-40°C to 150°C			
Thermal Hysteresis		<0.1		± % FSO	Zero pressure 25°C to 125°C			
Long-Term Stability		<0.25		± % FSO				
Burst Pressure	3X				Full scale pressure			
Full-Scale Output (@ 5 volts excitation)								
15 psi (1 bar; 103 KPa)	60	75	90	mV	Other outputs available upon request			
100 psi (6.9 bar; 689 KPa)	120	150	180	mV				
300 psi (20.7 bar; 2,068 KPa)	120	150	180	mV				

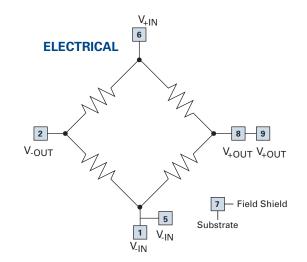
DIMENSIONS (millimeters, post-cut)



Bond Pad size = 0.15 mm x 0.15 mm Standard Bond Pad Metallization = Aluminum



Absolute also; other constraints available



Note: Bridge output bond pads (V-out and V+out) correspond to topside pressure. For backside pressure, the bridge outputs are reversed.