Mode	l Number	
17	6A 05	

CHARGE OUTPUT PRESSURE SENSOR

Revision: D ECN #: 55057

Performance	ENGLISH	SI	
Sensitivity(± 20 %)	65 pC/psi 942.7 pC/bar		
Measurement Range	75 psi 5.2 bar		
Maximum Pressure(Total)	1,450 psi	100 bar	
Resonant Frequency	> 40 kHz		
Transverse Resonance	≥ 8 kHz	≥ 8 kHz	
Frequency Response(+/- 5 %)	8 kHz	8 kHz	[1][2]
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[3]
Environmental			
Acceleration Sensitivity	0.003 psi/g	.00021 bar/g	[4]
Acceleration Sensitivity	0.01 psi/g	.00069 bar/g	[5]
Temperature Range(Continuous)	-94 to 968 °F	-70 to 520 ℃	
Temperature Range(Receptacle)	-76 to 500 °F	-60 to 260 ℃	
Temperature Response	See Graph	See Graph	
Hazardous Area Approval	See Manual	nual See Manual	
Radiation Exposure Limit(Integrated	1E8 rad	1E8 rad	
Gamma Flux)			
Radiation Exposure Limit(Integrated	1E10 N/cm ²	1E10 N/cm ²	
Neutron Flux)			
Electrical			
Output Polarity	Differential	Differential	
Capacitance(with cable pin - pin)	650 pF	650 pF	[4]
Resistance(Pin-Pin)(Room Temp)	≥ 10 ⁹ Ohm	≥ 10 ⁹ Ohm	
Resistance(Pin-Case)(Room Temp)	≥ 10 ¹² Ohm	≥ 10 ¹² Ohm	
Resistance(Pin-Pin)(968°F/520°C)	≥ 50,000 Ohm ≥ 50,000 Ohm		
Resistance(Pin-Case)(968°F/520°C)	≥ 100,000 Ohm ≥ 100,000 Ohm		
Insulation Resistance	See Graph See Graph		
Insulation Resistance	See Graph		
Insulation Resistance	See Graph	See Graph	
Insulation Resistance	See Graph		
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Compression	Compression	
Housing Material	Nickel Alloy Nickel Alloy		
Sealing	Welded Hermetic		
Electrical Connector	7/16-27 2-Pin	7/16-27 2-Pin	
Cable Type	Overbraided Hardline	Overbraided Hardline	
Weight(with cable)	9.35 oz	265 gm	

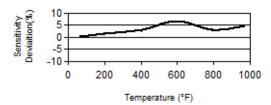
OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

MOLES

- [1] Low frequency response is determined by external signal conditioning electronics.
- [2]Upper frequency response is calculated from Resonant Frequency.
- [3]Zero-based, least-squares, straight line method.
- [4]Typical.
- [5]Maximum.
- [6] See PCB Declaration of Conformance PS058 for details.

Typical Sensitivity Deviation vs Temperature





All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice. ICP $^{\otimes}$ is a registered trademark of PCB Piezotronics, Inc.

SUPPLIED ACCESSORIES:

Model PCS-1 Calibration of dynamic pressure sensors at 100% full scale, max 15 kpsi range.

Entered: ND	Engineer: AJA	Sales: MV	Approved: RPF	Spec Number:
Date: 08/05/2024	Date: 08/05/2024	Date: 08/05/2024	Date: 08/05/2024	55187



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