Model Number 176M 47	CHARGE OUTPUT PRESSURE SENSOR							evision: E CN #: 55057
-	ENGLISH	CI.				PTIONAL VERSI		
erformance		SI		Optional versions		ications and accessor		andard model e
ensitivity(± 20 %)	15 pC/psi	217.5 pC/bar		o ptional terbiolis	where noted be	elow. More than one of	ption may be used.	
easurement Range	500 psi	34.47 bar					priori may be abea.	
aximum Pressure(Total)	2.5 kpsi	172.4 bar						
sonant Frequency	≥ 50 kHz	≥ 50 kHz						
ansverse Resonance	≥ 5 kHz	≥ 5 kHz						
	10 kHz	10 kHz	[1][]					
equency Response			[1][2]					
on-Linearity	≤ 1 % FS	≤ 1 % FS	[3]					
nvironmental								
celeration Sensitivity	0.01 psi/g	.00069 bar/g	[4]					
celeration Sensitivity	.003 psi/g	.00021 bar/g	[5]					
mperature Range(Continuous)	-70 to 1,200 °F	-57 to 650 °C						
emperature Range(Receptacle)	-76 to 500 °F	-60 to 260 °C						
emperature Response			(5)					
	See Graph	See Graph	[5]					
zardous Area Approval	See Manual	See Manual						
diation Exposure Limit(Integrated	1 E10 N/cm ²	1 E10 N/cm ²						
eutron Flux)								
diation Exposure Limit(Integrated	1 E8 rad	1 E8 rad						
amma Flux)								
ectrical								
	D							
utput Polarity(Positive Pressure)	Positive	Positive						
pacitance(with cable)	850 pF	850 pF	[5]					
sistance(Pin-Pin)(Room Temp)	≥ 10 ¹² Ohm	≥ 10 ¹² Ohm						
sistance(Pin-Case)(Room Temp)		≥ 10 ¹² Ohm						
	≥ 10 ¹² Ohm							
sistance(Pin-Pin)(1200°F/650°C)	≥ 50 kohm	≥ 50 kohm						
sistance(Pin-Case)(1200°F/650°C)	≥ 100 kohm	≥ 100 kohm						
sulation Resistance	See Graph	See Graph						
sulation Resistance	See Graph	See Graph						
sulation Resistance								
	See Graph	See Graph						
sulation Resistance	See Graph	See Graph						
hysical								
ensing Element	UHT-12™	UHT-12™						
ensing Geometry	Compression	Compression						
ousing Material	Nickel Alloy	Nickel Alloy		NOTES:				
aling	Welded Hermetic	Welded Hermetic		[1]Low frequency	response is determ	ined by external signa	l conditioning electro	nics.
ectrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack				ated from Resonant F		
					east-squares, straigh		requeriey.	
ectrical Connector	Integral Cable	Integral Cable			cast-squares, straigh	time methou.		
able Type	Hardline	Hardline		[4]Maximum.				
eight	4.3 oz	122 gm		[5]Typical.				
				LOISEE ACR DECIS	aration of Conformar	nce PS058 for details.		
	Typical Sensi	tivity Deviation vs Temp	perature	SUPPLIED AC				
	Sensitivity Deviation(%)			Model PCS-1 Cali	bration of dynamic p	ressure sensors at 10	0% full scale, max 15	kpsi range.
	2 g 10							
	18 iž 5							
	.≣ ≊ 0 							
	~å_ <u>.</u>							
JR	0 2	250 500 750	1000 1250					
-0								
		Temperature (°F)			1			
-		remperature (T)		Entered: ND	Engineer: AJA	Sales: MV	Approved: RPF	Spec Numbe
								-
				Date: 08/06/2024	Date: 08/06/2024	Date: 08/06/2024	Date: 08/06/2024	66620
Ex Str				PCB	PIEZOTRO	NICS Fax: 716 E-Mail:	716-684-0001 -684-0987 info@pcb.com	-
					AN AMPHENOL	. COMPANY		
specifications are at room temperatur	e unless otherwise specified.			2 4 2 5 4 1 1 1				
specifications are at room temperatur		ange specifications withou	it notice.	3425 Walden Aver	nue, Depew, NY 1404			
specifications are at room temperatur the interest of constant product improv [®] is a registered trademark of PCB Pie	ement, we reserve the right to ch	ange specifications withou	it notice.	3425 Walden Aver				