

Model Number 1061V3	PERFORMANCE SPECIFICATION									Doc No PS1061V3
	Force Sensors, IEPE								REV A, ECN 12920, 08/23	
						This family also includes:		•		
	• DYNAMIC FORCE SENSOR					Model	Sensitivity (mV/Lb)	Range (LbsF) Compressive, Tensile	Max Force (LbsF) Compressive, Tensile	Discharge Time Constant (Sec)
		 VOLTAGE MOD 	E			1061V1	10	500, 500	10000, 1000	150
		• EXCELLENT LI	NEARITY			1061V2	5	1000, 1000	20000, 1000	300
- Contraction of the second se						1061V4	0.5	10000, 1000	40000, 1000	2000
						1061V5	0.2	25000, 1000	50000, 1000	2000
						1061V6	0.1	50000, 1000	60000, 1000	2000
		ENGLISH	1	SI						
HYSICAL										
/eight, Max.		15.82	oz	452	grams	Refer to the p	performance specifications	of the products in this fam	ily for detailed description	
onnector	Туре	Coaxial		Coaxial				·		
	Thread	10-32		10-32		Supplied Ac	cessories:			
Housing	Material							O 17025)		
	Isolation Case grounded		Case grounded		2) MOD 6232 MOUNTING STUDS (2)					
Sensing Element	Material	Quartz		Quartz		-				
	Mode	e Compression		Compression		Available Accessories:				
					-	1) MOD 6217	STAINLESS STEEL IMP	ACT CAP		
ERFORMANCE					_					
ensitivity, +/-10%		1	mV/Lb	0.22	mV/N	Notes:				
ompression Range		5000	Lbs.Force	22240	N	[1] Absolute	maximum tension. Do r	ot exceed in any case!		
laximum Compression , +/-5%		30000	Lbs.Force	133440	N	[2] Percent of	f full scale or any lesser ra	nge, zero based best-fit sr	aight line method.	
ension Range		1000	Lbs.Force	4448	N	[3] Power the	ese instruments only with c	onstant current type power	units. Do not connect to a	source of
laximum Tension [1], +/-5%		1000	Lbs.Force	4448	N	voltage wi	ithout current limiting. This	will destroy the integral IC	amplifier.	
Resolution		.07	Lb. RMS	0.31136	N RMS					
inearity [2]		± 1	% Full Scale	± 1	% Full Scale					
Nounted Resonance (Unloaded)		≥ 75	kHz	≥ 75	kHz					
Stiffness		50	Lb/µin	8.66	kN/μm					
INVIRONMENTAL					-					
Coefficient Of Thermal Sensitivity		0.03	%/°F	0.05	%/°C					
Operating Temperature		-100 to +250	°F	-73 to +121	°C				MODEL 6217 IMPAC	CAP (OPTIONAL)
Aaximum Vibration		±3000	g's,Peak	±29400	m/s^2 Peak				MODEL 6217 IMPAC PROTECTS LOAD BE FROM DAMAGE FRO TESTING	EARING SURFACE
laximum Shock		5,000	g's,Peak	49,000	m/s^2 Peak			\square	TESTING.	
nvironmental Seal		Epoxy		Ероху					LOAD BEARING SURFACE.	APPLY LOAD
						WRENCH	FLATS, TYP 2	_ /	FOR BEST RESULTS	HE SURFACE
		0.400	0	0.4. 00		1.90 ACRO	SS FLATS	—— Ø 2.00 —— .43	-	
Supply Current [3] Compliance Voltage		2 to 20	mA	2 to 20	mA		\rightarrow	0 1.50	FORCE SENSITIV	E AXIS
Compliance Voltage Discharge Time Constant, Min.		18 to 30 1500	VDC Seconds	18 to 30 1500	VDC Seconds		. –		1	
S. Output Voltage		5	Volts	5	Volts				10-32 UNF MICRO	COAXIAL CONNECTOR
Dutput Impedance		100	Ω	100			1.25	.75	n	
uiput impedance		100	Ω	100	Ω			• [] [-U	U	
							ŧ			
								Ø 1.66		
							MODEL 6232 MOUNTING STUD	~ [~] /		
							SUFFLIED		UNC X .300 DEEP MOUNTING HC	DLE
							• ·	ets are in millimeters. Refer to 127-		
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