

		PERFORMANCE SPECIFICATION									
		Force Sensors, IEPE								REV B, ECN 13216, 01/17/17	
<b>A</b>						This family a	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			1050V1	500	10, 10	200, 200	50	
1		• EXCELLENT LIN	NEARITY			1050V2	100	50, 50	1000, 1000	100	
						1050V4	10	500, 500	10000, 1000	2000	
						1050V5	5	1000, 500	15000, 1000	2000	
						1050V6	1	5000, 500	15000, 1000	2000	
		ENGLISH	1	SI				,			
PHYSICAL											
Veight, Max.		1.12	oz	32	grams	Refer to the p	performance specifications	of the products in this fam	ily for detailed description		
Connector	Туре	Coaxial		Coaxial	-						
	Thread	10-32		10-32		Supplied Acc	cessories:				
Housing	Material										
	Isolation	<u> </u>		Case grounded		2) MOD 6210 STEEL IMPACT CAP					
Sensing Element	Material	Quartz		Quartz		3) MOD 6204	1/4-28 MOUNTING STU	D			
	Mode	Compression		Compression							
						Notes:					
ERFORMANCE							maximum tension. Do not	•			
ensitivity, +/-10%		50	mV/Lb	11.2	mV/N			nge,Zero based best-fit sra	•		
ompression Range		100	Lbs.Force	445	N		,	onstant current type power		source of	
laximum Compression , +/-5%		2000	Lbs.Force	8896	N	voltage wi	thout current limiting. This	will destroy the integral IC	amplifier.		
ension Range Iaximum Tension [1], +/-5%		100 1000	Lbs.Force Lbs.Force	445 4448	N N						
Resolution		.0014	Lbs.Force	0.00623	N RMS						
inearity [2]		± 1	% Full Scale	± 1	% Full Scale		40.00.00.000				
Mounted Resonance (Unloaded)		≥ 75	kHz	≥ 75	kHz		10-32 COAXIAL CONNECTOR		5/16-24 TH	IREADS	
Stiffness		11.4	Lb/µin	1.97	kN/µm						
			20, pm								
ENVIRONMENTAL											
Coefficient Of Thermal Sensitivity		0.03	%/°F	0.05	%/°C				.54		
Operating Temperature		-100 to +250	°F	-73 to +121	°C			- 5	► Ø.52		
Maximum Vibration		5000	g's,Peak	49000	m/s^2 Peak						
Maximum Shock		10,000	g's,Peak	98,000	m/s^2 Peak						
Invironmental Seal		Ероху		Ероху							
									.62		
ELECTRICAL		· · · · · · · · · · · · · · · · · · ·									
Supply Current [3]		2 to 20	mA	2 to 20	mA						
Compliance Voltage		18 to 30	VDC	18 to 30	VDC			<u> </u>			
Discharge Time Constant, Min.		500	Seconds	500	Seconds						
S. Output Voltage		5 100	Volts	5 100	Volts						
Dutput Impedance			Ω		Ω			<b>→</b> Ø. <b>750</b> -			
ias Voltage		7.5 to 9.5	VDC	7.5 to 9.5	VDC						