

Model Number 1050V6	PERFORMANCE SPECIFICATION			
		Force Sensors, IEPE		REV A, ECN 12881, 08/15/16



- DYNAMIC FORCE SENSOR
- VOLTAGE MODE
- EXCELLENT LINEARITY

		ENGLIS	H	SI	
PHYSICAL			_		
Weight, Max.		1.12	OZ	32	grams
Connector	Type	Coaxial		Coaxial	
	Thread	10-32		10-32	
Housing	Material	Stainless steel		Stainless steel	
	Isolation	Case grounded		Case grounded	
Sensing Element	Material	Quartz		Quartz	
	Mode	Compression		Compression	
PERFORMANCE					
Sensitivity, +/-10%		1	mV/Lb	0.22	mV/N
Compression Range		5000	Lbs.Force	22240	N
Maximum Compression , +/-5%		15000	Lbs.Force	66720	N
Tension Range		500	Lbs.Force	2224	N
Maximum Tension [1], +/-5%		1000	Lbs.Force	4448	N
Resolution		.07	Lb. RMS	0.31136	N RMS
Linearity [2]		±1	% Full Scale	± 1	% Full Scal
Mounted Resonance (Unloaded)		≥ 75	kHz	≥ 75	kHz
Stiffness		11.4	Lb/µin	1.97	kN/μm
ENVIRONMENTAL					
Coefficient Of Thermal Sensitivity		0.03	%/°F	0.05	%/°C
Operating Temperature		-100 to +250	°F	-73 to +121	°C
Maximum Vibration		5000	g's,Peak	49000	m/s^2 Pea
Maximum Shock		10,000	g's,Peak	98,000	m/s^2 Pea
Environmental Seal		Ероху]	Ероху]
ELECTRICAL					
Supply Current [3]		2 to 20	mA	2 to 20	mA
Compliance Voltage		18 to 30	VDC	18 to 30	VDC
Discharge Time Constant, Min.		2000	Seconds	2000	Seconds
F.S. Output Voltage		5	Volts	5	Volts
Output Impedance		100	Ω	100	Ω

This family also includes:							
Model	Sensitivity (mV/Lb)	Range (LbsF) Compressive, Tensile	Max Force (LbsF) Compressive, Tensile	Discharge Time Constant (Sec)			
1050V1	500	10, 10	200, 200	50			
1050V2	100	50, 50	1000, 1000	100			
1050V3	50	100, 100	2000, 1000	500			
1050V4	10	500, 500	10000, 1000	2000			
1050V5	5	1000, 500	15000, 1000	2000			

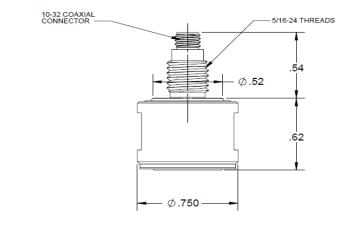
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited Calibration Certificate (ISO 17025)
- 2) MOD 6210 STEEL IMPACT CAP
- 3) MOD 6204 1/4-28 MOUNTING STUD

Notes:

- [1] Absolute maximum tension. Do not exceed in any case!
- [2] Percent of full scale or any lesser range, Zero based best-fit sraight line method.
- [3] Power these instruments only with constant current type power units. Do not connect to a source of voltage without current limiting. This will destroy the integral IC amplifier.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1050V for more information.

