

Model Number 1051V2	PERFORMANCE SPECIFICATION										DOC NO PS1051V2		
	DYNAMIC FORCE SEN					SOR, IEPE						REV A, ECN 12897, 08/18/16	
	This family also includes:												
		• COMPRESSIVE & TENSILE LOADINGS • EXCELLENT LINEARITY				Sens. (mV/lbf)	Compression Range (lbf)	Max. Compression (lbf)	Tension Range (lbf)	Max. Tension (lbf)	T.C. (sec)	Resolution (lbf, RMS)	
						500	10	200	10	200	50	0.00014	
						50	100	2000	100	500	500	0.0014	
		• IEPE, VOLTAGE MODE			1051V4	10	500	10000	500	500	2000	0.007	
					1051V5	5	1,000	15000	500	500	2000	0.014	
					1	5,000	15000	500	500	2000	0.07		
					performance	e specifications of	the products in t	his family for	detailed descriptio	n.			
PHYSICAL Weight, Max. Connector Material Sensing Element PERFORMANCE Sensitivity, ± 5 % Compression Range Maximum Compression Tension Range Maximum Tension [1] Resolution Linearity [2] Resonant Frequency, Unloaded Stiffness, Force Sensor ENVIROMENTAL Maximum Shock, Unloaded Maximum Vibration, Unloaded Temperature Range Thermal Coefficient Seal ELECTRICAL Output Voltage F.S Output Impedance Bias Voltage Compliance Voltage Range Supply Current Range [3] Discharge Time Constant, Nom	Material Mode	ENGLISI   1.0   10-32   Stainless Steel   Quartz   Compression   100   50   1,000   50   1,000   50   1,000   50   1,000   50   0.0007   ±1   75   11.4   10,000   5,000   -100 to +250   0.03   Epoxy   ±5   <100   7.5 to 11.5   18 to 30   2 to 20   100	H oz mV/lbf lbf lbf lbf, rms % Full Scale kHz lbf/μin g pk g pk °F %/°F V Ω VDC VDC VDC VDC VDC NDC Sec	$\begin{tabular}{ c c c c c c } \hline SI \\ \hline 28 \\ \hline 10-32 \\ \hline Stainless Steel \\ \hline Quartz \\ \hline Compression \\ \hline \hline 222.4 \\ \hline 4448 \\ \hline 222.4 \\ \hline 4448 \\ \hline 222.4 \\ \hline 0.00311 \\ \pm 1 \\ \hline 0.00311 \\ \pm 1 \\ \hline 75 \\ \hline 2.0 \\ \hline \hline 8100 \\ \hline m/s^2 \\ \hline 49050 \\ \hline -73 to +121 \\ \hline 0.05 \\ \hline -73 to +121 \\ \hline 0.05 \\ \hline -73 to +121 \\ \hline 0.05 \\ \hline \hline 8000 \\ \hline m/s^2 \\ \hline -73 to +121 \\ \hline 0.05 \\ \hline -73 to +121 \\ \hline 0.05 \\ \hline -75 to 11.5 \\ \hline 0.05 \\ \hline 8/^{\circ}C \\ \hline \hline 0 \\ \hline 0 \\$	e	MODEL 6210	Certificate (ISO 1 PACT CAP UNTING STUD tension. Do not r any lesser rang with constant cu the integral IC arr Zero based best	7025) exceed in any c e, zero based bes rrent type power plifier. TYPICAL fit straight line Force ED 130 130 130 130 130 130 130 130	ase! st-fit straight li units. Do not a LINEARITY Actual Out a 1% of 2 Full Scale re (Lb)	ine method. apply power to this put tero Based Best Fi Line o Uuput 28 TAPPED HOLE, 175 D 25 25 750 IDEL 6204 MTG STUD 28 (SUPPLIED)	s system with + 1% - 1%	out current	
					Units on the line of	drawing are in in	ches, units in brackets	are in millimeters. Refe	r to 127-1051V fo	r more information.			

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