

Model Number 1050V4	PERFORMANCE SPECIFICATION									Doc No PS1050V4
		Force Sensors, IEPE							REV B, ECN 13216, 01/17/1	
	-						This family also includes:			+
A		• DYNAMIC FOR			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
11 11		EXCELLENT LI	NEARITY			1050V2	100	50, 50	1000, 1000	100
						1050V3	50	100, 100	2000, 1000	500
						1050V5	5	1000, 500	15000, 1000	2000
						1050V6	1	5000, 500	15000, 1000	2000
		ENGLISH	4	SI				,	,	
HYSICAL										- J
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	0				, ,	
	Thread	10-32		10-32		Supplied Ac	cessories:			
Housing	Material	Stainless steel Stainless steel				1) Accredited	1) Accredited Calibration Certificate (ISO 17025)			
	Isolation			Case grounded	1	2) MOD 6210 STEEL IMPACT CAP				
Sensing Element	Material	Quartz		Quartz		3) MOD 6204	1/4-28 MOUNTING STU	D		
	Mode	Compression		Compression						
		Notes:								
PERFORMANCE						[1] Absolute r	maximum tension. Do not	exceed in any case!		
Sensitivity, +/-10%		10	mV/Lb	2.25	mV/N	[2] Percent of	f full scale or any lesser ra	nge,Zero based best-fit sra	aight line method.	
compression Range		500	Lbs.Force	2224	Ν	[3] Power the	se instruments only with c	onstant current type power	units. Do not connect to a	a source of
Aximum Compression , +/-5%		10000	Lbs.Force	44480	Ν	voltage wi	ithout current limiting. This	will destroy the integral IC	amplifier.	
ension Range		500	Lbs.Force	2224	Ν		•			
Aaximum Tension [1], +/-5%		1000	Lbs.Force	4448	Ν					
Resolution		.007	Lb. RMS	0.03114	N RMS					
inearity [2]		± 1	% Full Scale	± 1	% Full Scale		10-32 COAXIAL CONNECTOR			
Nounted Resonance (Unloaded)		≥ 75	kHz	≥ 75	kHz		CONNECTOR			IREADS
Stiffness		11.4	Lb/µin	1.97	kN/μm					
			-							
ENVIRONMENTAL			_							
Coefficient Of Thermal Sensitivity		0.03	%/°F	0.05	%/°C				.54	
Operating Temperature		-100 to +250	°F	-73 to +121	°C			- 23	► 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					
Environmental Seal		Ероху		Ероху						
									62	
ELECTRICAL		·	•						.62	
Supply Current [3]		2 to 20	mA	2 to 20	mA			Ĺ		
Compliance Voltage		18 to 30	VDC	18 to 30	VDC			Ì		
Discharge Time Constant, Min.		2000	Seconds	2000	Seconds					
S. Output Voltage		5	Volts	5	Volts					
Dutput Impedance		100	Ω	100	Ω			→ Ø.750 —		
Bias Voltage		7.5 to 9.5	VDC	7.5 to 9.5	VDC					
							-	ets are in millimeters. Refer to 127-		
		21592 Marilla S	Street, Chats	sworth, California	a 91311 Ph	none: 818.7	700.7818 Fax:81	8.700.7880 www.	dytran.com	
				sworth, California is content, pleas		none: 818.7	700.7818 Fax:81	ets are in millimeters. Refer to 127- 8.700.7880 www.		