

STEEL. TOP AND BOTTOM SURFACES, 17-4 PH ST. STEEL

SHEET

FORCE SENSOR, SERIES 1061V

 Model Number 1061V2
 Doc No PS1061V2

 Force Sensors, IEPE
 REV B, ECN 15074, 05/13/19



- DYNAMIC FORCE SENSOR
- VOLTAGE MODE
- EXCELLENT LINEARITY

Model	Sensitivity (mV/Lb)	Range (LbsF) Compressive, Tensile	Max Force (LbsF) Compressive, Tensile	Discharge Time Constant (Sec)
1061V1	10	500, 500	10000, 1000	150
1061V3	1	5000, 1000	30000, 1000	1500
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		SI	
PHYSICAL			•		
Weight, Max.		15.82	OZ	452	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%		5	mV/Lb	1.12	mV/N
Compression Range		1000	I hs Force	4448	N

Sensitivity, +/-10%	5	mV/Lb
Compression Range	1000	Lbs.Force
Maximum Compression , +/-5%	20000	Lbs.Force
Tension Range	1000	Lbs.Force
Maximum Tension [1], +/-5%	1000	Lbs.Force
Resolution	.014	Lb. RMS
Linearity [2]	± 1	% Full Scale
Mounted Resonance (Unloaded)	≥ 75	kHz
Stiffness	50	Lb/µin

ENVIRONMENTAL		
Coefficient Of Thermal Sensitivity	0.03	%/°F
Operating Temperature	-100 to +250	°F
Maximum Vibration	±3000	g's,Peak
Maximum Shock	5,000	g's,Peak
Environmental Seal	Ероху	
		•

2 to 20	mA
18 to 30	VDC
300	Seconds
5	Volts
100	Ω
7.5 to 9.5	VDC

0.1.00	
2 to 20	mA
18 to 30	VDC
300	Seconds
5	Volts
100	Ω
7.5 to 9.5	VDC

88960

4448

4448

0.06227

+ 1

≥ 75

8.66

0.05

-73 to +121

±29400

49.000

Ероху

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

Supplied Accessories:

- 1) Accredited Calibration Certificate (ISO 17025)
- 2) MOD 6232 MOUNTING STUDS (2)

Available Accessories:

1) MOD 6217 STAINLESS STEEL IMPACT CAP

Notes

Ν

Ν

Ν

N RMS

% Full Scale

kHz

kN/µm

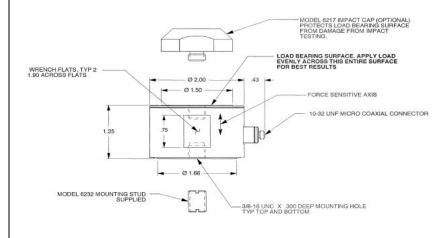
%/°C

°C

m/s^2 Peak

m/s^2 Peak

- [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.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1061V for more information.



ELECTRICAL

Supply Current [3]
Compliance Voltage

Discharge Time Constant, Min. F.S. Output Voltage Output Impedance Bias Voltage

21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com For permission to reprint this content, please contact info@dytran.com