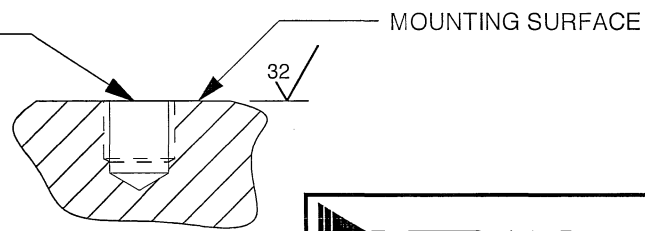


**MOUNTING PREPARATION**  
PREPARE FLAT SURFACE (TO .001 TIR)  
NEXT DRILL 5/16 (Ø.312) X .320 DEEP  
BOTTOM TAP 3/8-16 UNC-2B X .300 MIN  
THREAD DEPTH



REDRAWN ON CAD 9-9-96

4. DO NOT APPLY IMPACT LOADS TO FORCE SENSOR WITHOUT IMPACT CAP, MODEL 6217 OR EQUIVALENT. CONSULT FACTORY FOR SPECIAL IMPACT CAPS FOR YOUR PARTICULAR APPLICATION.
3. TORQUE TO 20-25 LB-FT AT INSTALLATION USING WRENCH ON WRENCH FLATS ONLY.
2. WEIGHT - 420 GRAMS
1. MATERIAL, HOUSING & CONNECTOR HOUSING: 300 SERIES STAINLESS STEEL. TOP AND BOTTOM SURFACES, 17-4 PH ST. STEEL

		<h1>MASTER ONLY IF IN RED</h1>		CHATSWORTH, CA.	
SCALE	1X	REV	DATE	ECN	
DATE	12/19/85	PART NO.	1061V		
DRAWN	N.C.	CHECKED	MAT'L		
APPROVED	N.C.	05/17/05	NEXT ASSEMBLY	USED ON	
TITLE				DWG NO.	
<b>OUTLINE/INSTALLATION DRAWING FORCE SENSOR, SERIES 1061V</b>				<b>127-1061V</b>	
				SHEET 1 OF 1	



- DYNAMIC FORCE SENSOR
- VOLTAGE MODE
- EXCELLENT LINEARITY

**PHYSICAL**

Weight, Max.  
Connector  
Housing  
Sensing Element

Type  
Thread  
Material  
Isolation  
Material  
Mode

ENGLISH		SI	
15.82	oz	452	grams
Coaxial		Coaxial	
10-32		10-32	
Stainless steel		Stainless steel	
Case grounded		Case grounded	
Quartz		Quartz	
Compression		Compression	

**PERFORMANCE**

Sensitivity, +/-10%  
Compression Range  
Maximum Compression, +/-5%  
Tension Range  
Maximum Tension [1], +/-5%  
Resolution  
Linearity [2]  
Mounted Resonance (Unloaded)  
Stiffness

1	mV/Lb	0.22	mV/N
5000	Lbs.Force	22240	N
30000	Lbs.Force	133440	N
1000	Lbs.Force	4448	N
1000	Lbs.Force	4448	N
.07	Lb. RMS	0.31136	N RMS
± 1	% Full Scale	± 1	% Full Scale
≥ 75	kHz	≥ 75	kHz
50	Lb/μin	8.66	kN/μm

**ENVIRONMENTAL**

Coefficient Of Thermal Sensitivity  
Operating Temperature  
Maximum Vibration  
Maximum Shock  
Environmental Seal

0.03	%/°F	0.05	%/°C
-100 to +250	°F	-73 to +121	°C
±3000	g's,Peak	±29400	m/s^2 Peak
5,000	g's,Peak	49,000	m/s^2 Peak
Epoxy		Epoxy	

**ELECTRICAL**

Supply Current [3]  
Compliance Voltage  
Discharge Time Constant, Min.  
F.S. Output Voltage  
Output Impedance  
Bias Voltage

2 to 20	mA	2 to 20	mA
18 to 30	VDC	18 to 30	VDC
1500	Seconds	1500	Seconds
5	Volts	5	Volts
100	Ω	100	Ω
7.5 to 9.5	VDC	7.5 to 9.5	VDC

**This family also includes:**

Model	Sensitivity (mV/Lb)	Range (LbsF) Compressive, Tensile	Max Force (LbsF) Compressive, Tensile	Discharge Time Constant (Sec)
1061V1	10	500, 500	10000, 1000	150
1061V2	5	1000, 1000	20000, 1000	300
1061V4	0.5	10000, 1000	40000, 1000	2000
1061V5	0.2	25000, 1000	50000, 1000	2000
1061V6	0.1	50000, 1000	60000, 1000	2000

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

**Supplied Accessories:**

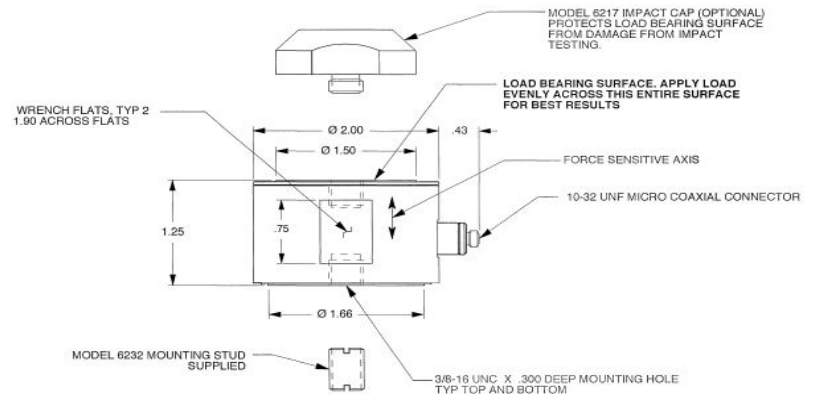
- 1) Accredited Calibration Certificate (ISO 17025)
- 2) MOD 6232 MOUNTING STUDS (2)

**Available Accessories:**

- 1) MOD 6217 STAINLESS STEEL IMPACT CAP

**Notes:**

- [1] Absolute maximum tension. Do not exceed in any case!
- [2] Percent of full scale or any lesser range, zero based best-fit straight 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.

