



3 WRENCH FLATS: 11/16 (.687) ACROSS FLATS X .31 HIGH.

2 IT IS IMPORTANT THAT BOTTOM SURFACE OF SENSOR BE IN INTIMATE CONTACT. INSPECT FOR BURRS, ETC.

1 PREPARE FLAT SURFACE OVER Ø.625 MINIMUM AREA BY GRINDING, SPOTFACING, LAPPING ETC. THIS AREA MUST BE FLAT WITH .001 TIR, TYP BOTH MODELS.

EXCEPT AS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES TOLERANCE: .XXX ± .XX ±	
SURFACE FINISH EXCEPT AS NOTED	✓
BREAK EDGES TO DEBURR RADIUS OR CHAMFER	
△ THESE DIAS ⊙ TO	T.I.R.
FILLETS -	MAX RAD.

DYTRAN
INSTRUMENTS, INC.

CHATSWORTH, CA.

SCALE	2X	REV	A	DATE	5-26-99	ECN	-		
DATE	1/30/82	PART NO.							
DRAWN	N.C.	CHECKED	N.C.	MATERIAL					
APPROVED		NEXT ASSEMBLY			USED ON	SERIES 1051V			
TITLE							DWG NO.		
OUTLINE/INSTALLATION DRAWING, MODEL 1051V							127-1051V		
							SHEET 1 OF 1		

SPECIFICATIONS MODEL SERIES 1051V DYNAMIC FORCE SENSORS

SPECIFICATIONS BY MODEL

MODEL	SENSITIVITY (mV/Lb)	COMPRESSION RANGE (Lbs)	MAXIMUM COMP. (Lbs)	TENSION RANGE (Lbs)	MAXIMUM TENSION (Lbs) [1]	DISCH. TC (Sec)	RESOLUTION (Lb, RMS)
1051V1	500	10	200	10	200	50	.0014
1051V2	100	50	1000	50	500	100	.0007
1051V3	50	100	2000	100	500	500	.0014
1051V4	10	500	10,000	500	500	2000	.007
1051V5	5	1000	15,000	500	500	2000	.014
1051V6	1	5000	15,000	500	500	2000	.07

COMMON SPECIFICATIONS

SPECIFICATION	VALUE	UNITS
STIFFNESS	11.4	Lb/μ In
MOUNTED RESONANT FREQUENCY, UNLOADED	75	kHz
LINEARITY [2]	+/- 1	%F.S.
F.S.OUTPUT VOLTAGE, NOM.	5	VOLTS
MAX SHOCK, UNLOADED	10,000	G's
MAX. VIBRATION, UNLOADED	+/- 5,000	G's
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
TEMPERATURE RANGE	-100 to +250	°F
ENVIRONMENTAL SEAL	EPOXY	
SUPPLY CURRENT / VOLTAGE RANGE [3]	2 to 20 / +18 to +30	mA / VDC
OUTPUT IMPEDANCE	100	OHMS
MATERIAL	STAINLESS STEEL	
WEIGHT	28	GRAMS
MOUNTING PROVISION	1/4-28 x .175 DEEP TAPPED HOLE IN TOP AND BOTTOM SURFACES	
ELECTRICAL CONNECTOR, RADIAL	10-32	COAXIAL

ACCESSORIES SUPPLIED: (1) MOD 6210 STEEL IMPACT CAP, (1) MOD 6204 1/4-28 MOUNTING STUD

[1] **Absolute maximum tension. Do not exceed in any case!**

[2] Percent of full scale or of 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.