



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 WITHIN .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.

		CHATSWORTH, CA.			
		SCALE 2X	REV -	DATE -	ECN -
DATE 1/15/01	PART NO. -				
DRAWN N.C.	CHECKED N.C.	MAT'L -			
APPROVED	NEXT ASSEMBLY		USED ON		
TITLE			SERIES 1053V		
OUTLINE/INSTALLATION DRAWING, MODEL SERIES 1053V			DWG NO.		
			127-1053V		
			SHEET 1 OF 1		

SPECIFICATIONS MODEL SERIES 1053V 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)
1053V1	500	10	200	10	200	50	.00014
1053V2	100	50	1000	50	200	100	.0007
1053V3	50	100	2000	100	200	500	.0014
1053V4	10	500	10,000	200	200	2000	.007
1053V5	5	1000	15,000	200	200	2000	.014
1053V6	1	5000	15,000	200	200	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	10-32 x .175 DEEP TAPPED HOLE IN TOP AND BOTTOM SURFACES	
ELECTRICAL CONNECTOR, RADIAL	10-32	COAXIAL

ACCESSORIES SUPPLIED: (1) MOD 6213 STEEL IMPACT CAP, (2) MOD 6562 10-32 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.