

Model Number 1053V2	PERFORMANCE SPECIFICATION		
	DYNAMIC FORCE SENSOR		REV A, ECN 11034, 06/25/14



- COMPRESSIVE & TENSILE LOADINGS
- EXCELLENT LINEARITY

PHYSICAL		ENGLISH		SI	
				=	
		OZ		grams	
Connector Material				1	
]	
		_			
Mode	Compression		Compression	_	
	100	mV/lbf	22.5	mV/N	
	50	lbf	222.4	N	
	1,000	lbf	4448	N	
	50	lbf	222.4	N	
		lbf	890	N	
	0.0007	lbf, rms	0.0031	N	
	±1		±1	% Full Scale	
				kHz	
	11.4	lbf/µin	2.0	kN/μm	
	10,000	g pk	98100	m/s ²	
	5.000		49050	m/s ²	
	-100 to +250	°F	-73 to +121	°C	
		%/°F		%/°C	
	Epoxy		Epoxy		
		-	, , , ,	=	
		V	±5	V	
				Ω	
				VDC	
	18 to 30	VDC	18 to 30	VDC	
	2 to 20	mA	2 to 20	mA	
	100	Sec	100	Sec	
		= "		=	
	Material Mode	1.0 10-32 Stainless Steel Quartz Compression 100 50 1,000 50 200 0.0007 ±1 75 11.4 10,000 5,000 -100 to +250 0.03 Epoxy ±5 <100 7.5 to 9.5 18 to 30 2 to 20	1.0	1.0	

This family also includes:

	-									
Model	Sens. (mV/lbf)	Compression Range (lbf)	Max. Compression (lbf)	Tension Range (lbf)	Max. Tension (lbf)	T.C. (sec)	Resolution (lbf, RMS)			
1053V1	500	10	200	10	200	50	0.00014			
1053V3	50	100	2000	100	200	500	0.0014			
1053V4	10	500	10000	200	200	2000	0.007			
1053V5	5	1,000	15000	200	200	2000	0.014			
1053V6	1	5,000	15000	200	200	2000	0.07			

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

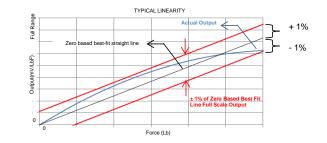
Supplied Accessories:

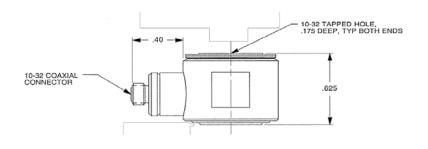
- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6213 steel impact cap, Model 6562 10-32 mounting stud

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] Do not apply power to this system without current limting, 20 mA MAX.To do so will destroy the integral IC amplifier
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.





Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1053V for more information.

