

## PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 5Vdc excitation unless otherwise stated.  
TE reserves the right to update and change these specifications without notice.

### PARAMETERS

DYNAMIC							Notes
Range (g)	±50	±100	±200	±500	±2,000	±6,000	
Sensitivity (mV/g) <sup>1</sup>	0.6-1.5	0.3-0.6	0.3-0.6	0.15-0.3	0.06-0.15	0.25-0.15	@5Vdc Excitation
Frequency Response (Hz)	0-1,000	0-1,200	0-1,400	0-2,000	0-4,500	0-5,000	±5%
Natural Frequency (Hz)	4,000	6,000	8,000	15,000	24,000	26,000	
Non-Linearity (%FSO)	±1	±1	±1	±1	±1	±2	
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	<3	<1 Typical
Damping Ratio	0.4-0.9	0.4-0.9	0.2-0.6	0.2-0.6	0.05-0.30	0.05-0.30	
Shock Limit (g) <sup>3</sup>	5,000	5,000	5,000	10,000	10,000	10,000	

### ELECTRICAL

Zero Acceleration Output (mV)	±25	Differential
Excitation Voltage (Vdc)	2 to 10	
Input Resistance (Ω)	2,400-6,500	
Output Resistance (Ω)	2,400-6,500	
Insulation Resistance (MΩ)	>100	@50Vdc
Residual Noise (µV RMS)	10	Maximum
Ground Isolation	Isolated from Mounting Surface	

### ENVIRONMENTAL

Thermal Zero Shift (%FSO/°C)	-0.09	Typical
Thermal Sensitivity Shift (%/°C)	-0.15	Typical
Operating Temperature (°C)	-55 to 125	
Compensated Temperature (°C)	Uncompensated	
Storage Temperature (°C)	-55 to 125	
Humidity	Hermetically Sealed	

### PHYSICAL

Case Material	Ceramic
Weight (grams)	0.6
Mounting	Solder

<sup>1</sup> Output is ratiometric to excitation voltage. 10Vdc excitation will increase output by a factor of 2x.

<sup>2</sup> The maximum recommended soldering temperature is +260°C

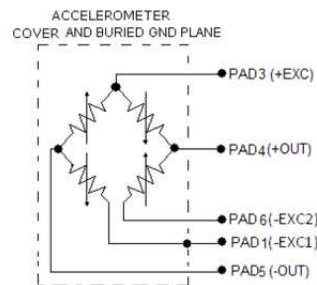
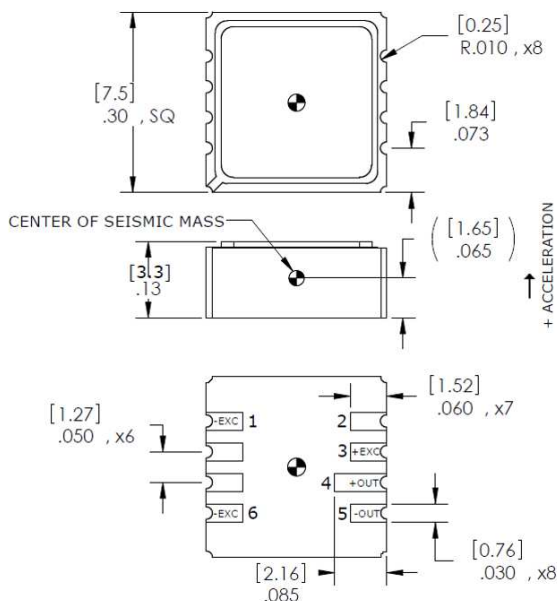
<sup>3</sup> 10,000g shock limit in normal axis; 5,000g in transverse axes

### CALIBRATION SUPPLIED

CS-SENS-0100 NIST Traceable Amplitude Calibration at 100Hz and 5Vdc Excitation

# MODEL 3038 ACCELEROMETER

## DIMENSIONS



## ORDERING INFORMATION

3038-GGGG-ZZ

Options (No options, leave blank)  
Range (0100 is 100g)

Options  
-01 10Vdc Calibration

Part Number	Range
3038-0050	50g
3038-0100	100g
3038-0200	200g
3038-0500	500g
3038-2000	2,000g
3038-6000	6,000g

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