





PCB® and Endevco® manufacture leading-edge shock accelerometer designs that are contributing to the improved measurement of severe mechanical shock.

Our piezoresistive accelerometers are DC responding to avoid integration errors which is critical to the quality of your low frequency measurements. Piezoelectric ICP® accelerometers offer a very high signal output (+/- 5 volts full scale) and the ease of two-wire electrical connectivity.

Our technical experts can help you determine the optimal accelerometer for your measurement application. A brief summary of the technologies available are provided inside this brochure.

APPLICATIONS

Mechanical shock testing

Shock wave monitoring

Drop and impact testing

Portable electronic device testing

High-shock data recorders

Near and far-field pyroshock testing

Weapons and rocket testing

Fuze/safe and arm



PIEZORESISTIVE ACCELEROMETERS

Piezoresistive high g shock accelerometers are available in both undamped and lightly damped models to provide high-reliability shock and vibration measurements in extreme environments. With available measurement ranges from 2,000 to 200,000 g, these accelerometers feature rugged piezoresistive MEMS sensing elements.

Our in-house MEMS manufacturing techniques allow us to offer a product with compact size, high sensitivity, and exceptional overrange, while ensuring the repeatability and reliability required for mission critical applications. Product variations include single axis or triaxial configurations and screw, stud, and surface mounting options.

HIGHLIGHTS

Multiple mounting configurations

Minimal zero shift after shock

High survivability in overrange environments

DC response for long duration transient events

Ranges up to 200,000 g

Undamped for broad frequency response or damped for exceptional survivability

Miniature SMT versions for embedded applications

UNDAMPED PIEZORESISTIVE ACCELEROMETERS

The Endevco brand of undamped shock accelerometers dates back over four decades and are used on many long standing programs that require high frequency. They are used by our most experienced customers primarily engaged in research and development applications, where careful preparation of the experiment is performed and attention is given to minute instrumentation details such as sample rate, antialiasing filter selection and detailed post process analysis.











SPECIFICATIONS					
Model Number	Endevco 7270A	Endevco 7270AM4	Endevco 7270AM6	Endevco 7270AM7	Endevco 7274A
Description	High resonance Undamped Shock standard	High resonance Undamped Stud mount	Rugged Mechanical filter Stud mount	Extremely rugged Undamped Low noise cable	Triaxial Undamped High resonance
Range (g)	±2000/±6000/±20000/ ±60000/±200000	±2000 / ±6000 / ±20000 / ±60000 / ±200000	±2000 / ±6000 / ±20000 / ±60000	±2000 / ±6000 / ±20000 / ±60000 / ±200000	±2000 / ±6000 / ±20000 / ±60000
Sensitivity (uV/V/g)	10/3/1/.3/.1	10/3/1/.3/.1	10/3/1/.3	10/3/1/.3/.1	10/3/1/.3
Frequency response (kHz +/-5%)	0-10 / 0-20 / 0-50 / 0-100 / 0-150	0-10 / 0-20 / 0-50 / 0-100 / 0-150	0-10	0-10 / 0-20 / 0-50 / 0-100 / 0-150	0-18 / 0-36 / 0-70 / 0-140
Shock limit (g pk)	10000 / 18000 / 60000 / 180000 / 200000	10000 / 18000 / 60000 / 180000 / 200000	10000 / 18000 / 60000 / 100000	10000 / 18000 / 60000 / 180000 / 200000	6000 / 18000 / 60000 / 180000
Temperature Range - Operating	-67 to +250 °F -55 to +121 °C	-67 to +150 °F -55 to +66 °C	-30 to +150 °F -34 to +66 °C	-67 to +250 °F -55 to +121 °C	-67 to +150 °F -55 to +66 °C
Dimensions (in(mm))	.56 x .28 x .11 (14.22 x 7.1 x 2.79)	.312 hex (7.92 dia.)	.675 x .580 x .621 (17.15 x 14.73 x 15.78)	.56 x .35 x .16 (14.22 x 8.9 x 4.06)	.0.56 x .304 x .245 (14.22 x 7.72 x 6.22)
Weight (gram)	1.5	1.5	8.4	4	2.9
Excitation voltage (V)	10	10	10	10	5
Mounting method	4-40 screws	1/4-28 UNF-3A stud	1/4-28 integral stud	4-40 screws	4-40 screws

UNDAMPED PIEZORESISTIVE SURFACE MOUNT ACCELEROMETERS

Endevco undamped surface mount configurations allow for use in circuit board OEM applications.





SPECIFICATIONS				
Model Number	Endevco 71M	Endevco 75		
Description	Surface mount Undamped Low mass	Triaxial Undamped Surface mount LCC		
Range (g)	±2000 / ±6000 / ±20000 / ±60000	±2000 / ±6000 / ±20000 / ±60000		
Sensitivity (uV/V/g)	10/3/1/.3	10/3/1/.3		
Frequency response (kHz +/-5%)	0-10 / 0-20 / 0-50 / 0-100	0-18 / 0-36 / 0-70 / 0-140		
Shock limit (g pk)	10000 / 18000 / 60000 / 120000	10000 / 18000 / 60000 / 180000		
Temperature Range - Operating	-65 to +150 °F -54 to +66 °C	-67 to +250 °F -55 to +121 °C		
Dimensions (in(mm))	0.25 x .125 x 0.07 (6.35 x 3.18 x 1.78)	0.38 × 0.28 × 0.22 (9.65 × 7.11 × 5.59)		
Weight (gram)	0.06	1.2		
Excitation voltage (V)	10	5		
Mounting method	Adhesive	SMT or Adhesive		

DAMPED PIEZORESISTIVE ACCELEROMETERS

Damped MEMS high-amplitude shock accelerometers represent state-of-the-art industry technology for miniature, high amplitude, DC response acceleration sensors. This series is capable of measuring long duration transient motion, as well as responding to and surviving extremely fast rise times, typical of a high-g shock event as found in explosive, gun and impact testing.





SPECIFICATIONS				
Model Number	Endevco 2262B	Endevco 7280AM4		
Description	High Sensitivity Multi-mode damping Rugged to 10000 g shocks	Extremely rugged Lightly damped		
Range (g)	±1000 / ±2000 / ±6000	±2000 / ±20000 / ±60000		
Sensitivity (uV/V/g)	0.45 / 0.3 / 0.015	30 / 1.6 / .5		
Frequency response (kHz)	0 to 3000	0-5 / 0-10 / 0-13		
Shock limit (g pk)	10000	10000 / 80000 / 240000		
Temperature Range - Operating	-67 to 257 °F -55 to 125 °C	-67 to +250 °F -55 to +121 °C		
Dimensions (in(mm))	0.935 × 0.625 × 0.79 23.68 × 15.88 × 20.1	0.312 HEX 7.92		
Weight (gm)	22	2.1		
Excitation voltage (V)	10	10		
Mounting method	10-32 detachable stud	1/4-28 UNF-3A stud		







SPECIFICATIONS				
Model Number	Endevco 7280AM7	Endevco 7280A	Endevco 7284A	
Description	Extremely rugged Lightly damped Low noise cable	Extremely rugged Lightly damped Low power consumption	Thru hole mount Lightly damped	
Range (g)	±2000 g / ±20000 g / ±60000	±2000 g / ±20000 g / ±60000	±2000 g /±20000 / ±60000	
Sensitivity (uV/V/g)	30 / 1.6 / .5	30 / 1.6 / .5	30 / 1.6 / .5	
Frequency response (kHz)	0-5 / 0-10 / 0-13	0-5 / 0-10 / 0-13	0-10 / 0-10 / 0-20	
Shock limit (g pk)	10000 / 80000 / 240000	10000 / 80000 / 240000	10000 / 60000 / 180000	
Temperature Range - Operating	-67 to 250 °F -55 to +121 °C	-67 to 250 °F -55 to +121 °C	-67 to +250 °F -55 to +121 °C	
Dimensions (in(mm))	0.56 x 0.35 x 0.16 (14.2 x 8.90 x 4.06)	0.56 x 0.35 x 0.16 (14.2 x 8.90 x 4.06)	0.56 x .304 x .245 (14.22 x 7.72 x 6.22)	
Weight (gm)	4	4	3.6	
Excitation voltage (V)	10	10	5	
Mounting method	4-40 screws	4-40 screws	4-40 screws	

LIGHTLY DAMPED PIEZORESISTIVE SURFACE MOUNT SHOCK ACCELEROMETERS

Endevco brands of lightly damped shock accelerometers feature over range stops for improved survivability. Damping also helps improve data recorder resolution compared to undamped versions.





SPECIFICATIONS				
Model Number	Endevco 72	Endevco 74		
Description	Lightly damped Rugged ESD protection	Triaxial Damped Surface mount LCC		
Range (g)	±2000 / ±20000 / ±60000	±2000 / ±20000 / ±60000		
Sensitivity (uV/V/g)	30 / 1.6 / .6	30 / 1.6 / .5		
Frequency response (kHz)	0-10 / 0-10 / 0-20	0-5 / 0-10 / 0-13		
Shock limit (g pk)	10000 / 80000 / 240000	10000 / 60000 / 180000		
Temperature Range (Operating)	-65 to +160 °F -54 to +71 °C	-67 to +250 °F -55 to +121 °C		
Dimensions (in(mm))	0.25 x 0.15 x .085 (6.35 x 3.81 x 2.16)	0.38 x 0.28 x 0.22 (9.65 x 7.11 x 5.59)		
Weight (gm)	0.16	1.2		
Excitation voltage (V)	5	5		
Mounting method	SMT or adhesive	SMT or adhesive		

ICP® MECHANICALLY ISOLATED & ELECTRICALLY FILTERED ACCELEROMETERS

Piezoelectric ICP® accelerometers afford a very high signal output (+/- 5 volts full scale) and the ease of two-wire electrical connectivity. Their inherent ruggedness enables them to be severely over ranged without damage. The addition of internal mechanical isolation minimizes the high frequency stress that is transferred to their sensing elements. This mechanical isolation, coupled with an internal 2-pole electrical filter built into the ICP® circuitry, tailors the overall accelerometer response to assure data quality to 10 kHz and up to 100,000 g's. Full scale linearity is verified through calibration in accordance with MIL-STD-810.









SPECIFICATIONS				
Model Number	PCB 350C23	PCB 350C24	PCB 350D02	PCB 350B01
Description	Single Axis Integral Cable Mechanically Isolated			
Range (g)	±10000 g pk	±5000 g pk	±50000 g pk	±100000 g pk
Sensitivity (mV/g)	0.5	1.0	0.1	0.05
Frequency response (Hz)	0.4 - 10000	0.4 - 10000	4 - 10000	4 - 10000
Shock limit (g pk)	±50000	±50000	±150000	±150000
Temperature Range (Operating)	-10 to +150 °F -23 to +66 °C			
Dimensions (in(mm))	0.375 x 0.88 9.5 x 22.4	0.375 x 0.88 9.5 x 22.4	0.375 x 0.87 9.5 x 22.1	0.375 x 1.04 9.5 x 26.5
Weight (gm)	5.4	5.4	4.5	5.5
Excitation voltage (V)	20 - 30	20 - 30	20 - 30	20 - 30
Mounting method	1/4-28 UNF-3A stud	1/4-28 UNF-3A stud	1/4-28 UNF-3A stud	1/4-28 UNF-3A stud









SPECIFICATIONS				
Model Number	PCB 350B41	PCB 350B42	PCB 350B43	PCB 350B44
Description	Triaxial Hermetically Sealed Mechanically Isolated	Triaxial Hermetically Sealed Mechanically Isolated	Triaxial Hermetically Sealed Mechanically Isolated	Triaxial Hermetically Sealed Mechanically Isolated
Range (g)	±100000	±50000	±10000	±5000
Sensitivity (mV/g)	0.05	0.1	0.5	1.0
Frequency response (Hz)	4 - 10000	4 - 10000	0.4 - 10000	0.4 - 10000
Shock limit (g pk)	± 150,000	± 150,000	±50000	±50000
Temperature Range (Operating)	-10 to +150 °F -23 to +66 °C			
Dimensions (in(mm))	1.02 x 1.02 x 1.02 (26.0 x 26.0 x 26.0)	1.02 x 1.02 x 1.02 (26.0 x 26.0 x 26.0)	1.02 x 1.02 x 1.02 (26.0 x 26.0 x 26.0)	1.02 x 1.02 x 1.02 (26.0 x 26.0 x 26.0)
Weight (gm)	27	27	27	27
Excitation voltage (V)	20 - 30	20 - 30	20 - 30	20 - 30
Mounting method	Through Hole, 1/4-28 x .87 screw			

SIGNAL CONDITIONING FOR HIGH-G SHOCK







SPECIFICATIONS				
Model Number	ENDEVCO 4418	PCB 482C27	PCB 483C28	
Features	PR	PR / ICP®	PR / ICP®	
Channels	1	4	8	
Gain	1, 10, 100	0.1 to 200	0.1 to 200	
Power Requirements (VAC)	Battery powered, rechargeable	AC	AC	



SPECIFICATIONS		
Model Number	ENDEVCO 4416C	
Features	ICP®	
Channels	1	
Gain	1,10, 100	
Power Requirements (VAC)	Battery powered, rechargeable	







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