

Coming Soon

gemini™

Dual-Axis Accelerometer



www.siliconsensing.com

CAS200



Actual size

Features

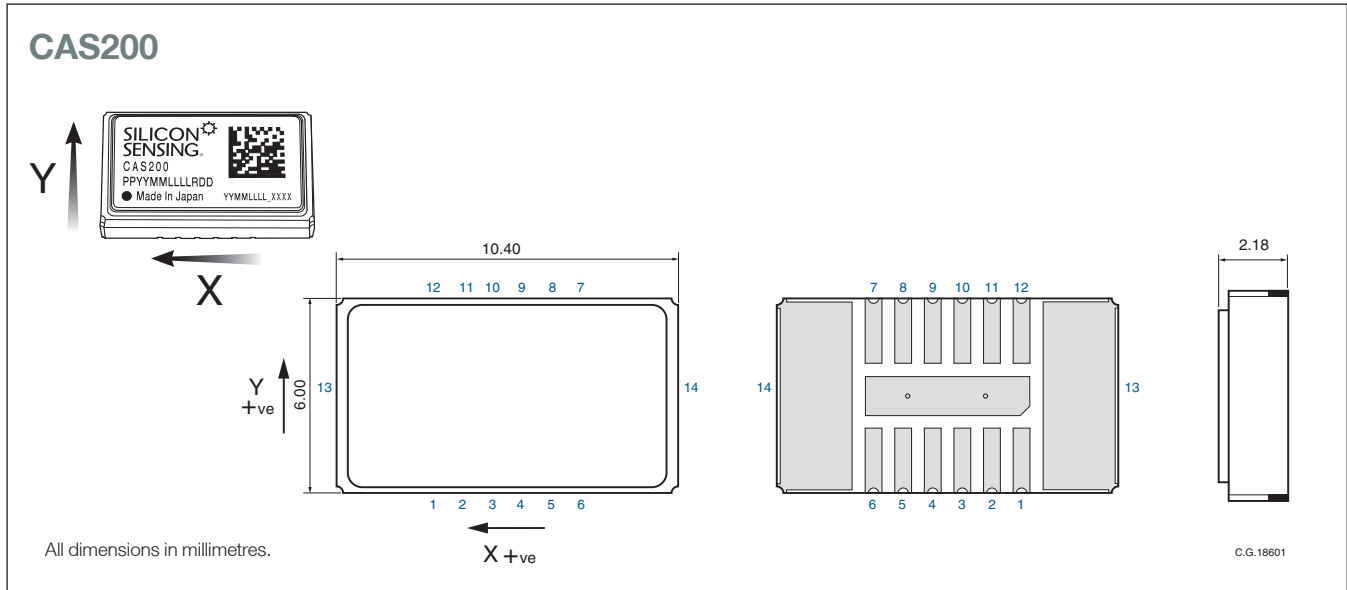
- Small (10.4 x 6.0 x 2.2mm)
- Excellent bias repeatability over temperature
- Dual-axis MEMS accelerometer in a hermetically sealed ceramic LCC surface mount package for temperature and humidity resistance
- Five dynamic range options; $\pm 0.85g$, $\pm 2.5g$, $\pm 10g$, $\pm 30g$ and $\pm 96g$
- Analogue outputs for linear acceleration and temperature
- Temperature range -40 to $+125^{\circ}C$
- High shock and vibration rejection
- Low power consumption (3mA) from a 3.3V supply
- Integral temperature sensor
- RoHS compliant

Applications

- Aerospace and industrial
- Aircraft AHRS and controls
- Platform stabilisation
- Drilling guidance
- Surveying and mapping
- Land and marine navigation
- Transportation
- Inertial measurement units

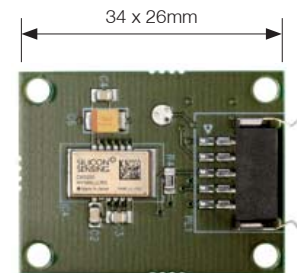


Dual - Axis Accelerometer



Specification (CAS200 Series)

Parameter	Specification				
Number of sense axes	2-axis				
Ordering Part Number:	CAS211	CAS212	CAS213	CAS214	CAS215
Dynamic range	±0.85g	±2.5g	±10g	±30g	±96g
SF over temperature	1.0%	1.0%	1.0%	1.5%	2.0%
SF non-linearity	0.2%	0.5%	2.0%	2.0%	2.0%
Bias run to run @+25°C	0.15mg	0.3mg	5mg	10mg	15mg
Noise spectral density	100µg/√Hz	100µg/√Hz	350µg/√Hz	350µg/√Hz	1,000µg/√Hz
Supply voltage	2.7V ~ 3.6V				
Current consumption	<5mA				
Bandwidth	180Hz typical				
Temperature	Operating: -40°C to +125°C; Storage: -55°C to +150°C				
Shock	Operating: 1,000g 1ms ½ sine; Survival: T.B.D.				
Start-up time	150ms				
Mass	<0.4 gram				



Gemini™ Evaluation Board - CAS200 (P/N CAS200-02-0302)

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Specification subject to change without notice.

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Printed in England 10/2012

CAS200-00-0100-131 Rev 1
DCR No. 710003177