

SILICON SENSING®



The Gyro

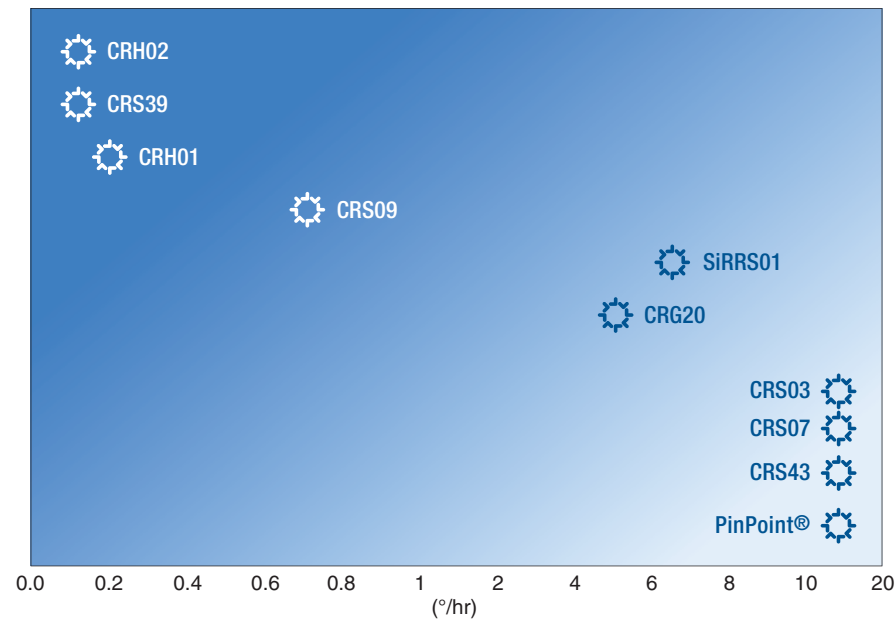
MEMS Single Axis Product Selection Guide



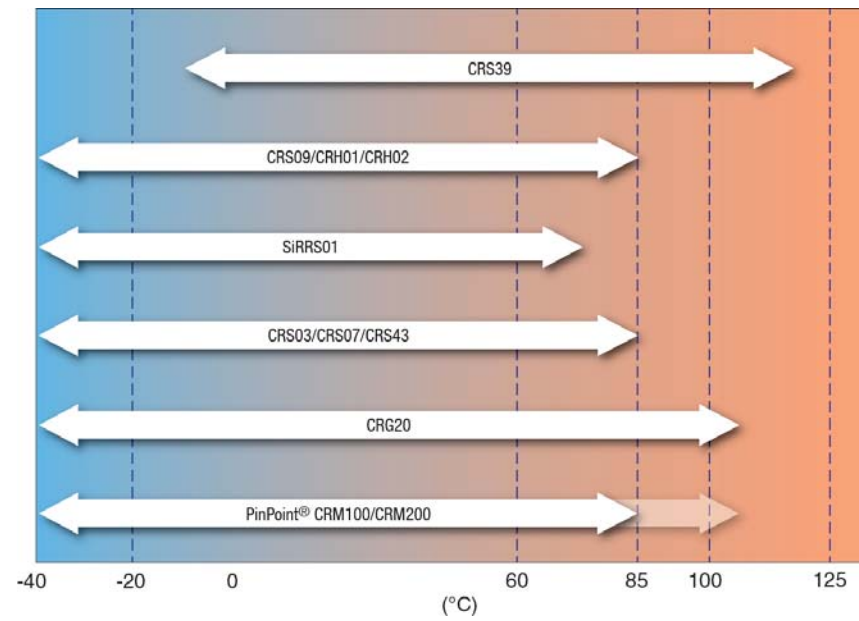


	PinPoint®	CRG20	CRS43	CRS03	CRS07	SiRRS01	CRS09	CRS39	CRH01	CRH02
Part Numbers Available	CRM100 CRM120 CRM200 CRM202	CRG20-01 CRG20-02 CRG20-12 CRG20-22	CRS43-01 CRS43-02 CRS43-04	CRS03-01S CRS03-02S CRS03-04S CRS03-11S	CRS07-02S CRS07-11S CRS07-13S	RRS01-01 RRS01-03 RRS01-05 RRS01-07 RRS01-09	CRS09-01 CRS09-02 CRS09-11 CRS09-12	CRS39-01 CRS39-02 CRS39-03	CRH01-025 CRH01-100 CRH01-200 CRH01-400	CRH02-025 CRH02-100 CRH02-200 CRH02-400
Status	In Production (Recommended for New Applications)			In Production	In Production	In Production	In Production (Recommended for New Applications)			
Alternative	-	-	-	CRS43	CRS43	CRS09 CRS39	CRH01 CRH02	-	-	-
Dynamic Range	±75°/s to ±1,000°/s	±75°/s to ±300°/s	±100°/s to ±200°/s	±80°/s to ±573°/s	±100°/s to ±573°/s	±50°/s to ±1,500°/s	±100°/s to ±200°/s	±25°/s	±25°/s to ±400°/s	±25°/s to ±400°/s
Supply Voltage (Vdd)	3.3V	5.0V	5.0V	5.0V	5.0V	±5.0V	5.0V	5.0V	5.0V	5.0V
Bias Instability (Typical)	14°/hr	5°/hr	<14°/hr	14°/hr (100°/s)	14°/hr (100°/s)	5°/hr (110°/s)	0.7°/hr (100°/s)	<0.2°/hr	0.2°/hr (25°/s)	<0.12°/hr
Bias Variation with Temp	±3°/s	±2.5°/s	±3°/s, ±6°/s	±3°/s (100°/s) ±28.65°/s (573°/s)	±3°/s (100°/s) ±28.65°/s (573°/s)	±3°/s	±1°/s, ±3°/s	±0.14°/s	±0.2°/s	±0.1°/s
In-Band Quiescent Noise	0.18°/s rms (100Hz)	0.80°/s rms	<0.18/s, (100°/s)	0.28°/s rms (100°/s)	0.28°/s rms (100°/s)	0.35°/s rms (110°/s)	0.03°/s rms	0.03°/s rms	0.20°/s	0.15°/s
Bandwidth (Gain -3dB)	5Hz to 160Hz User Selectable	40Hz, 75Hz, 90Hz	24Hz	10Hz, 30Hz	10Hz, 30Hz	50Hz	55Hz	25Hz	150Hz	30Hz, 100Hz
Operating Temp	-40°C to +105°C	-40°C to +105°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +75°C	-40°C to +85°C	-10°C to +110°C	-40°C to +85°C	-40°C to +85°C
Current Consumption	4mA	60mA	26mA	35mA	35mA	50mA	100mA	80mA	60mA	60mA
Dimensions (mm)	5.7 x 4.8 x 1.2 (CRM100) 6.3 x 5.5 x 2.7 (CRM200)	9 x 9.5 x 3.44	29 x 29 x 18.4	29 x 29 x 18.4 27 x 27 x 10.6	24.2 x 24.5 x 18.3 21 x 22 x 13.15	31.8 x 31.8 x 17.7	63 x 63 x 19	75 x 24.5 x 19 100 x 27 x 22.4	33 x 33 x 25	33 x 33 x 25
Interface	Analogue, Digital, SPI®	Analogue, Digital, SPI®	Analogue	Analogue	Analogue	Analogue	Analogue	Analogue	Analogue	Analogue
Configurations	SMD In-plane & Orthogonal	SMD	Module Case Unsealed	Module Case Unsealed & OEM	Module Case Unsealed & OEM	Module Case Unsealed	Module Case Unsealed	Module Case Unsealed & OEM	Module Case Unsealed	Module Case Unsealed

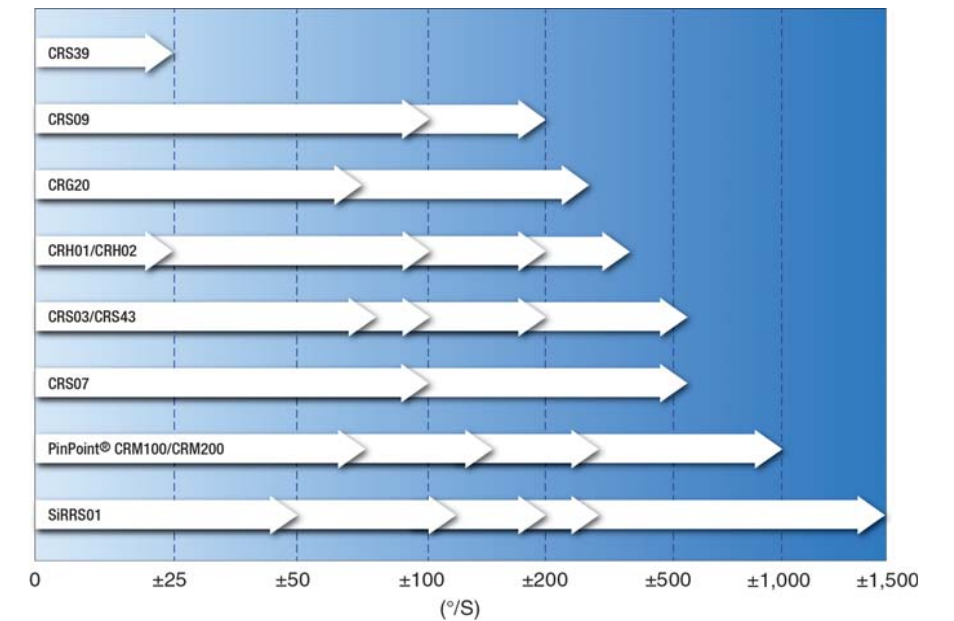
Price vs Performance (Bias Instability)



Operating Temperature



Dynamic Range





SILICON SENSING®

Silicon Sensing Systems Limited
Cliffa Road Southway
Plymouth Devon
PL6 6DE United Kingdom

T: +44 (0)1752 723330
F: +44 (0)1752 723331
E: sales@siliconsensing.com
W: siliconsensing.com

Silicon Sensing Systems Japan Limited
1-10 Fuso-Cho
Amagasaki
Hyogo 6600891 Japan

T: +81 (0)6 6489 5868
F: +81 (0)6 6489 5919
E: sssj@spp.co.jp
W: siliconsensing.com

Specification subject to change without notice.

© Copyright 2014
Silicon Sensing Systems Limited
All rights reserved.

Printed in England 09/2014
Date 25/09/2013