


Product Specifications: RM3000 and RM3100

	RM3000		RM3100 		
Parameter	Cycle Counts		Cycle Counts		
	200		50	100	200
Field Measurement Range	-800 μ T - +800 μ T		-800 μ T - +800 μ T		
Noise	30nT		30nT	20nT	15nT
Gain @ 3V (counts/ μ T)	50nT		20nT	38nT	75nT
Linearity over \pm 200 μ T	0.6 % (typical) to 1.0 % (max)		0.5 % (typical)		
Resolution/Sensitivity	20 nT		50nT	26nT	13nT
Max 3-Axis Sample Rate	158 Hz		534 Hz	284 Hz	147 Hz
Circuit Oscillation Frequency	190 kHz		180 kHz		
Current Usage @ 8 Hz, 3 Axes	150 (mA)		70mA	135mA	260mA
Bias Resistor (R_B)	100 Ω		121 Ω		
Interface	SPI		SPI and I2C		
Size (l x w x h)	Sen XY	6.0 x 2.1 x 2.2 mm	Sen XY	6.0 x 2.1 x 2.2 mm	
	Sen Z	3.0 x 3.0 x 5.75 mm	Sen Z	3.0 x 3.0 x 5.75 mm	
	3DMagI2C	5.0 x 5.0 x 0.9 mm	MagI2C	4.0 x 4.0 x 0.75 mm	

Notes:

Gain for RM3000 interpolated to 3.0 V

Current consumption for RM3000 scaled from 35 Hz and interpolated to 3.0V