



Physical Logic



MAXL-OL-2000

Open Loop Products

Advanced MEMS sensors for multiple applications;
Taking accuracy to the next level

MAXL-OL-2000 Key Parameters

Parameter	MAXL-OL-2002	MAXL-OL-2005	MAXL-OL-2010	MAXL-OL-2015	MAXL-OL-2020	MAXL-OL-2040	MAXL-OL-2070
Sensing Range g	±2	±5	±10	±15	±20	±40	±70
Bias @25°C mg (max)	5	13	30	50	50	100	175
Long Term Bias Repeatability mg (1σ)	0.5	0.8	1.5	2	2	4	5
Bias Short Term Stability (1h) µg (max)	100	150	200	250	250	350	900
Bias Temperature Sensitivity µg/°C (1σ)	70	110	120	150	150	300	550
Bias Temperature residual µg (1σ)	400	500	500	500	500	650	800
Turn On to Turn On Repeatability mg (max)	0.09	0.24	0.45	0.5	0.5	0.6	0.8
Scale Factor mV/g	600±2	240±2	120±2	80±1	60±1	30±1	17±1
Long Term SF Repeatability ppm (1σ)	600	600	600	600	600	600	600
SF Short Term Stability (1h) ppm(max)	<200	<200	<200	<200	<200	<200	<300
SF Temperature Sensitivity ppm/°C (1σ)	55	55	55	55	55	55	55
SF Temperature residual ppm (1σ)	200	200	200	200	200	200	200
SF Linearity Error	% of input acceleration (1σ)	0.7	0.7	0.7	0.7	0.7	0.7
	% of full scale (1σ)	0.2	0.2	0.2	0.2	0.2	0.2
Bandwidth (-3dB) Hz	200 (500)*	250 (1000)*	250 (1000)*	250 (1200)*	250 (1200)*	300 (2000)*	300 (2400)*
Noise Density µg/√Hz (max)	1.2	1.6	2.2	4	4	5	5

(*)Special order required for adjusted Bandwidth. No degradation in other parameters.

Physical Logic Ltd. | 48 Ben Zion Galis St. Petah Tikva, 4927948, Israel

Office: +972 3 5708188 | Fax: +972 3 5709180

www.physical-logic.com | info@physical-logic.com

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