

Model Number
RHM240A03

UNIAXIAL STRAIN SENSOR

Revision: A
ECN #: 45631

Performance

	ENGLISH	SI	
Sensitivity(± 20 %)	10 mV/με	10 mV/με	
Measurement Range	300 pk με	300 pk με	[2]
Frequency Range(-5 %)	0.004 Hz	0.004 Hz	[3]
Broadband Resolution(1 to 10,000 Hz)	0.001 με	0.001 με	[1]
Non-Linearity	≤ 2 %	≤ 2 %	[4]

Environmental

Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	[1]
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Electrical

Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Discharge Time Constant	≥ 150 sec	≥ 150 sec	

Physical

Sensing Element	Quartz	Quartz	
Housing Material	Stainless Steel	Stainless Steel	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Sealing	Epoxy	Epoxy	
Mounting Torque	7.38 ft-lb	10 Nm	
Size (Width x Length x Height)	0.67 in x 1.81 in x 0.6 in	17 mm x 46 mm x 15.2 mm	
Weight	1.6 oz	45 gm	[1]

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

W - Water Resistant Cable

NOTES:

- [1] Typical.
- [2] Based on 10 mV/με sensitivity.
- [3] Calculated from discharge time constant.
- [4] Zero-based, least-squares, straight line method.
- [5] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model M081A100 M6 x 1.00 flathead screw (1)

Entered: LK	Engineer: APB	Sales: WDC	Approved: APB	Spec Number:
Date: 7/8/2016	Date: 7/8/2016	Date: 7/8/2016	Date: 7/8/2016	36903



All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.
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