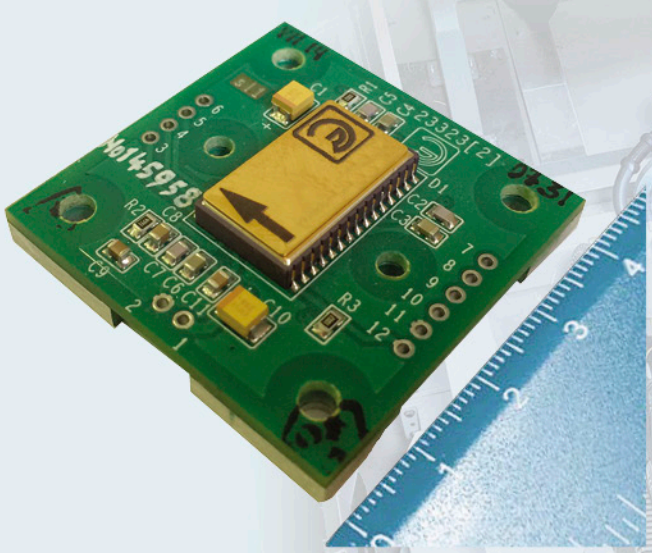
MICROMECHANICAL GYRO

MMG-EP1

IS BUILT ON the principle of a vibrating RR-type gyro with internal torsion suspension, electrostatic excitation of primary oscillations, and capacitive data pick-off; the gyro is manufactured using SOI technology.



APPLICATION:

- Automotive industry – to improve traffic safety
- Robotics – to advance manipulator performance
- Medicine – to position surgical instruments
- Navigation and control systems of different mobile objects

ЭЛЕКТРО ПРИБОР

SPECIFICATIONS:

Number of axes	1
Measurement range *	450 °/s
Scale factor nonlinearity	0,4 %
Scale factor instability	<2,5 %
Noise-power density	<0,01 °/s/ √Hz
Bandwidth *	100 Hz
Bias stability error (by Allan variance)	<10 °/h
Overall dimensions	40,0×40,0×8,2 mm
Operating temperature range **	-55... +85 °C
Supply voltage, unipolar	+5 V
Readiness time	<1,0 s
Power consumption	<0,3 W
Output waveform	digital with SPI protocol

* Parameter can be programmatically tuned according to the customer requirements
**Embedded temperature sensor

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