

INDUCTION MAGNETOMETER FOR SPACE APPLICATIONS - LEMI-106

エクスカリバー株式会社
www.exjp.co.jp
Email:support@exjp.co.jp
TEL:03-6215-8506
FAX:03-6215-8700

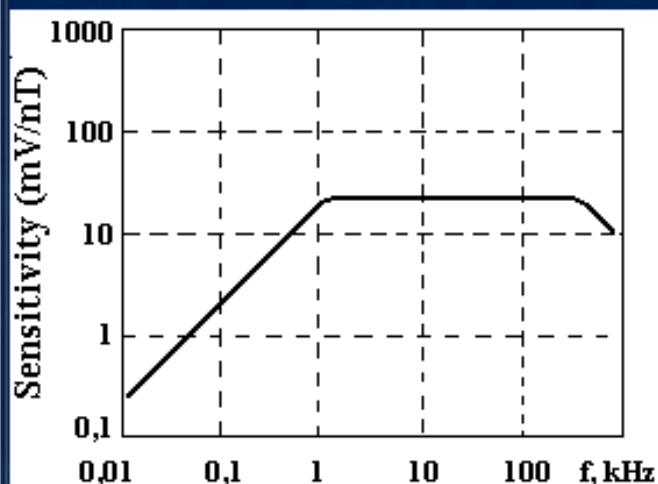
Main features

- High sensitivity
- Low noise, near the theoretically lowest possible level
- Frequency band 10 Hz - 600 kHz
- Super-light construction
- Low power consumption
- Metrological certification

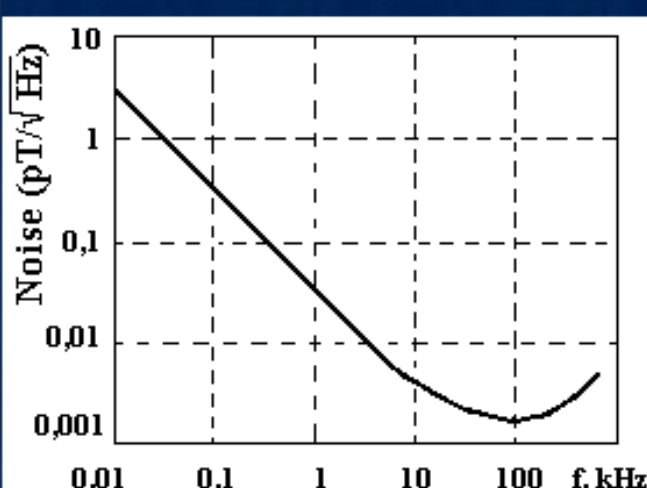


New calculation methodology using minimal mass criteria allowed to minimize the weight, conserving necessary length in order to provide low noise level in wide frequency band. The magnetic feedback design is utilized what provides a stable response over several decades of frequency. Over the flat band region the sensor operates as a B field detector; for the frequencies below the flat part the sensor response is proportional to signal frequency or to dB/dt derivative. Low noise preamplifier is placed inside the sensor.

Frequency Response



Noise Level



The main parameters

Full frequency range	10 ... 600000 Hz
Sensitivity, linear part	0.02 mV/nT*Hz
Sensitivity, flat part	20 mV/nT
Length	510 mm
Weight	75 g
Power consumption	2 mA at ±12 V