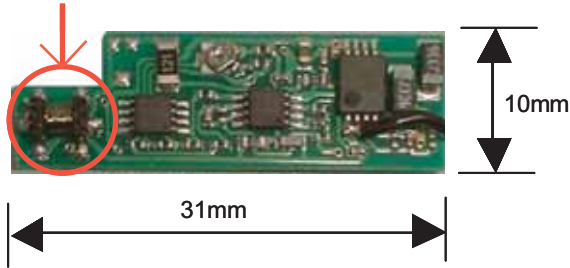


MI sensor element



High sensitivity sensor (30mV/mG) with frequency band restricted to 0.3~5Hz. With resolution above 0.3mG, able to sensitively catch magnetic field variations. Cancels steady magnetic fields such as geomagnetism, and detects magnetic fields generated by movable objects with high sensitivity. Able to detect metal objects such as knives at security gates without false readings, as well as foreign bodies like staples and paper clips within food or clothing.

Specifications

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Supply Voltage	Vdd max	7	V
Operation Temp.	Topr	- 40 to +85	degree C
Storage Temp.	Tstg	- 40 to +125	degree C

Electrical Characteristics

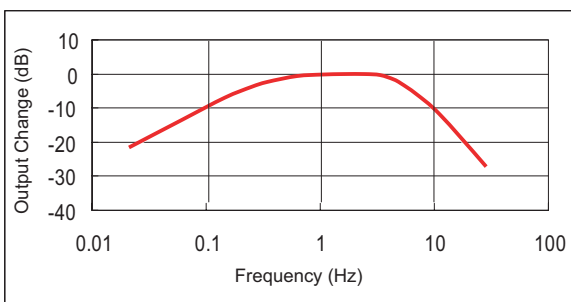
(Ta = 25 degree C, Vdd = 5.0V)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Output Offset Voltage	at 0Gauss	Vofs	2.3	2.5	2.7	V
Sensitivity	1Hz sinusoidal magnetic field			30		mV/mG
Power Dissipation	at 0 Gauss	Idd		15.3		mA

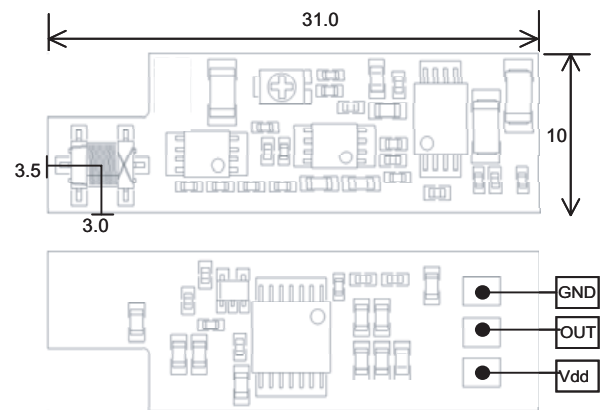
Recommended Operating Conditions

Parameter	Symbol	Ratings	Unit
Supply Voltage	Vdd	5 +/- 0.05	V
Operation Temp.	Topr	- 40 to + 85	degree C

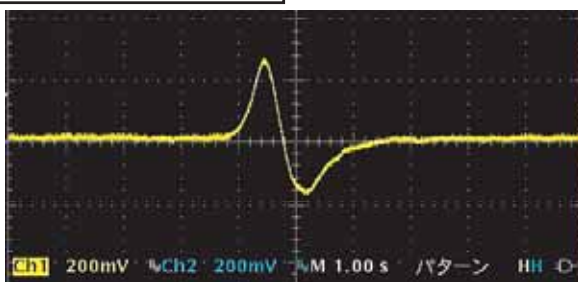
Output Dependency on Applied Field Intensity



Dimensions



Output Example



Paper clip at 100 mm distance