MRS-H-21

Feature

- A magnetic resistance element is an InSb mono-crystal. That sensitivity and the ratio of S/N are high.
- It can be detected even if detected material doesn't stick to the detection side
- Output doesn't depend on the movement speed of the magnetic body, and it can detect a stationary body.
- A detection part is pure resistance, and hardly catches guidance noise.
- It is the miniature metal case package which can use even the limited space.

Absolute Maximum Rating (Ta=25C)

Item	Symbol	Standard Value	Unit
Excitation,Maximum	Va max	5.5	V
Withstand Voltage	V_I	100	V
Allowable Loss	P_D	50	mW
Operation Environmental Temperature	T_{opg}	-30 ~ +85	℃
Preserved Environmental Temperature	T_{stg}	-30 ~ +85	℃

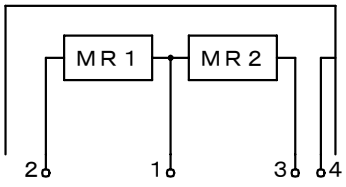
Electrical Property (Ta=25C)

Item	Symbol	Condition	min.	Typ.	Max.	Unit
Output voltage	V_{OUT}	Va=5V*1	0.3		0.9	mVrms
Resistance balance	d	I=1mA*2			30	%
Input resistance	R	I=1mA	600	—	4500	Ω
Voltage Noise	V_{NW}	Va=5V			50	μV_{P-P}
Piezo Noise	V_{NP}	Va=5V,press=10g			300	μV_{P-P}
Magnetic Flux Density	B			0.75 (S Pole)		T
Detection Width	W			6		mm

*1 Input uses the magnetic flux which occurs when it is charged with current of 50Hz, 100mA(rms) in the line of φ 0.1mm.

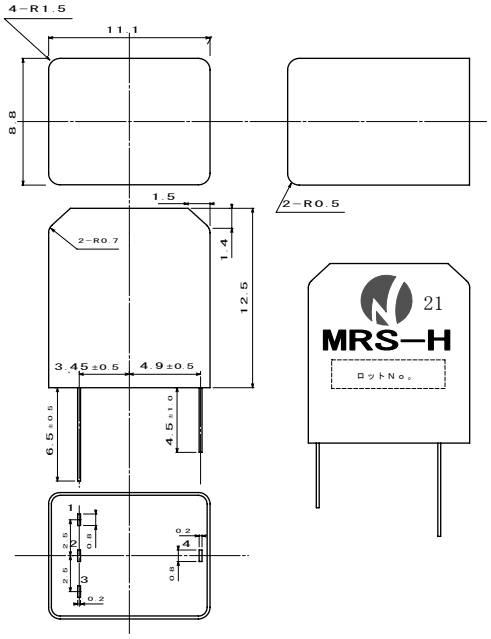
*2 d=|MR1-MR2|/MR1 (or MR2) *100

Internal Circuit Figure



1	Vout
2	Va
3	GND
4	FG

Contour Measure Figure



 # The product specifications and the appearance are possibility of changing without notice.

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