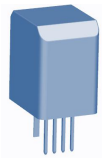
LTJ-XM-006 Series



Features

a) High sensitivity and excellent gap characteristics.
b) Output voltage is independent of scanning speed.
c) Excellent CMRR performance due to differential design.
d) Sensor has detection width of 6 mm.

Applications

a) Bank note validator.
b) Magnetic ink document reader.

Absolute parameters

Item		Value	Unit
Max. Supply Voltage	V_a max	6	V
Isolation Voltage	V_I	200	V
Working Temperature	T_{opg}	-10 ~ +65	℃
Storage Temperature	T_{stg}	-30 ~ +85	℃
Working Humanity	H_{Rh}	10% ~ 90%	
ESD Level (HBM)		2	kV

Electrical specifications（Ta = 25℃）

Item		Condition	Min	Typ	Max	Unit
Supply Voltage	V_{cc}		1	5	5.5	V
Resistance	R			2		kOhm
Offset	V_d	V_a = 5 V		2.5		V
Sensitivity①	V_{P-P}	V_a = 5 V		1.5		mV
Noise	V_{nw}	V_a = 5 V			50	uV

① The sensitivity can be calculated by using the testing method described below (Fig. 1).

Physical parameters

Item		Part Number	Min	Typ	Max	Unit
Detection Width	W_d	LTJ-XM-006		6		mm
Surface Field②	H	LTJ-XM-006		1000		Gs
Channel width	W_c	LTJ-XM-006		6		mm

② The magnetic field on the surface of the sensor along the width direction.

Dimensions

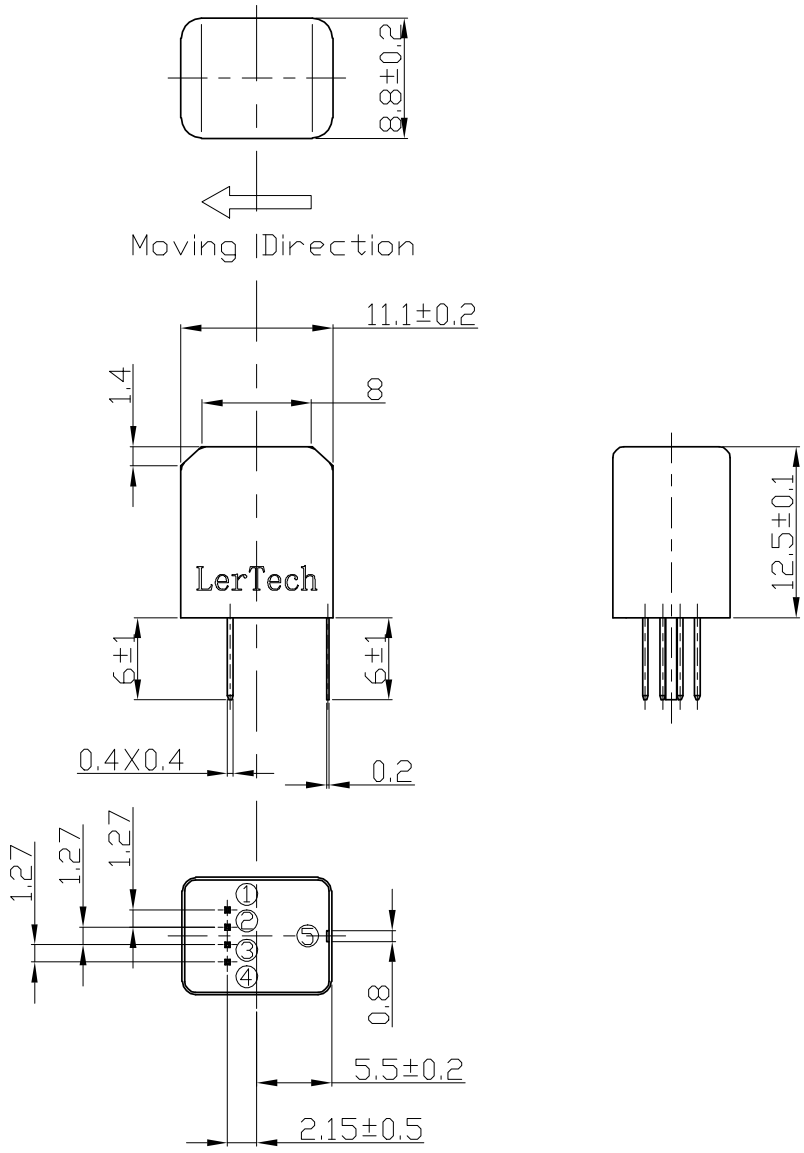


Table for wiring

Terminal No.	Wiring
①	S-
②	GND
③	S+
④	Vcc
⑤	F.G

n : channel No.

Case : Cu thickness 0.2
Magnet : NdFeB
Unit : mm