

## LTJ-XM-006 Series

### Features

1. High sensitivity and excellent gap characteristics.
2. Output voltage is independent of scanning speed.
3. Excellent CMRR performance due to differential design.
4. Sensor has detection width of 6 mm.

### Applications

1. Bank note validator
2. 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	$T_{opg}$	-40~+85	°C
Storage Temperature	$T_{stg}$	-50~+95	°C
Working Humidity	$H_{Rh}$	10% ~ 90%	
ESD Level (HBM)		4	kV

### Electrical Specifications ( $T_a = 25^\circ\text{C}$ )

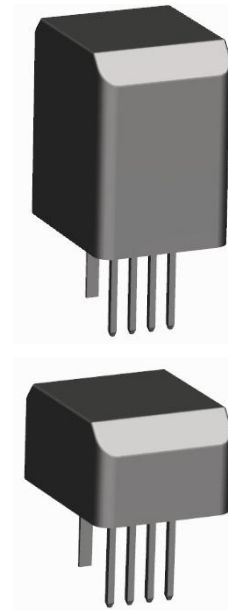
Item		Condition	Min	Typ	Max	Unit
Supply Voltage	$V_{cc}$		1	5	5.5	V
Resistance	R			2		kOhm
Offset	$V_d$	$V_a = 5\text{ V}$		2.5		V
Sensitivity ①	$V_{P-P}$	$V_a = 5\text{ V}$		1.5		mV
Noise	$V_{nw}$	$V_a = 5\text{ V}$			50	uV

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

### Physical Parameters

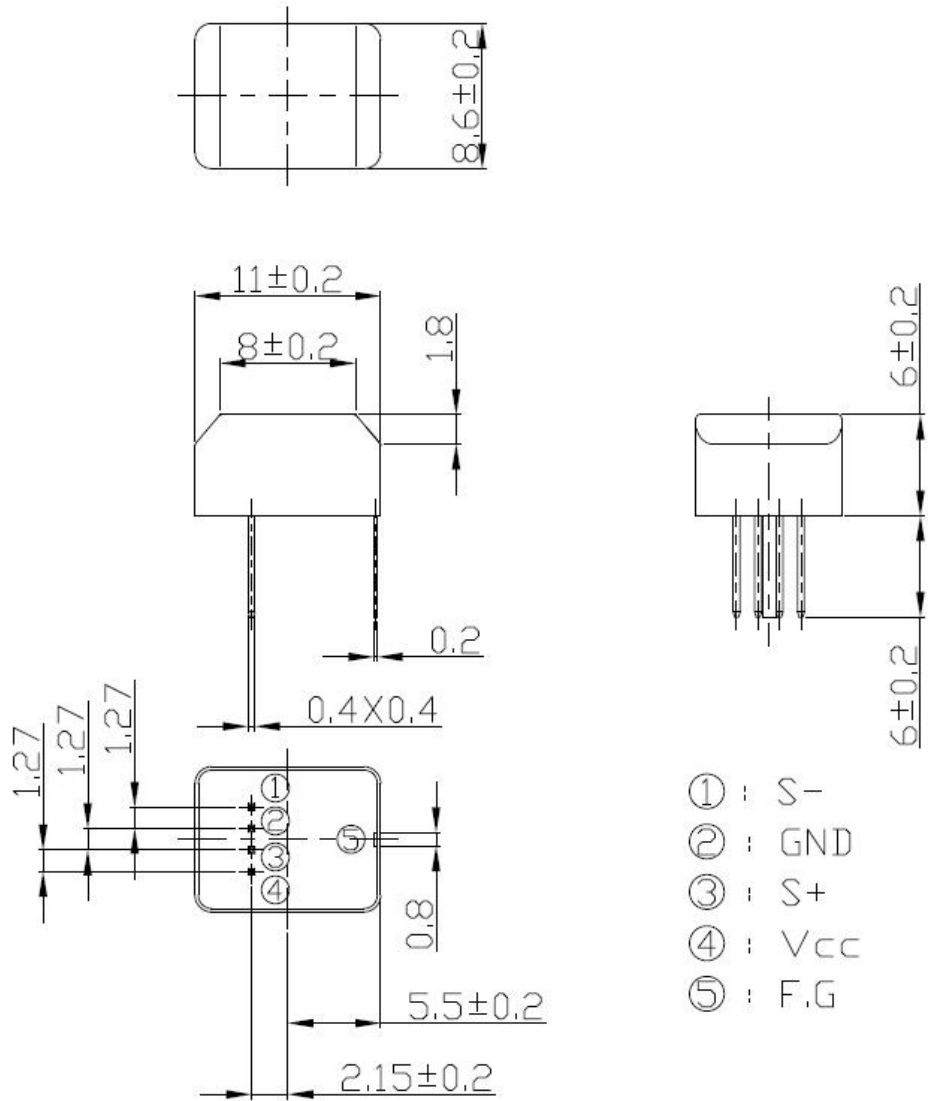
Item		Part Number	Min	Typ	Max	Unit
Detection Width	$W_d$	LTJ-XM-006		6		mm
Surface Field ①	H	LTJ-XM-006		500		Gs
Channel width	$W_c$	LTJ-XM-006		6		mm

① The magnetic field on the surface of the sensor along the width direction.

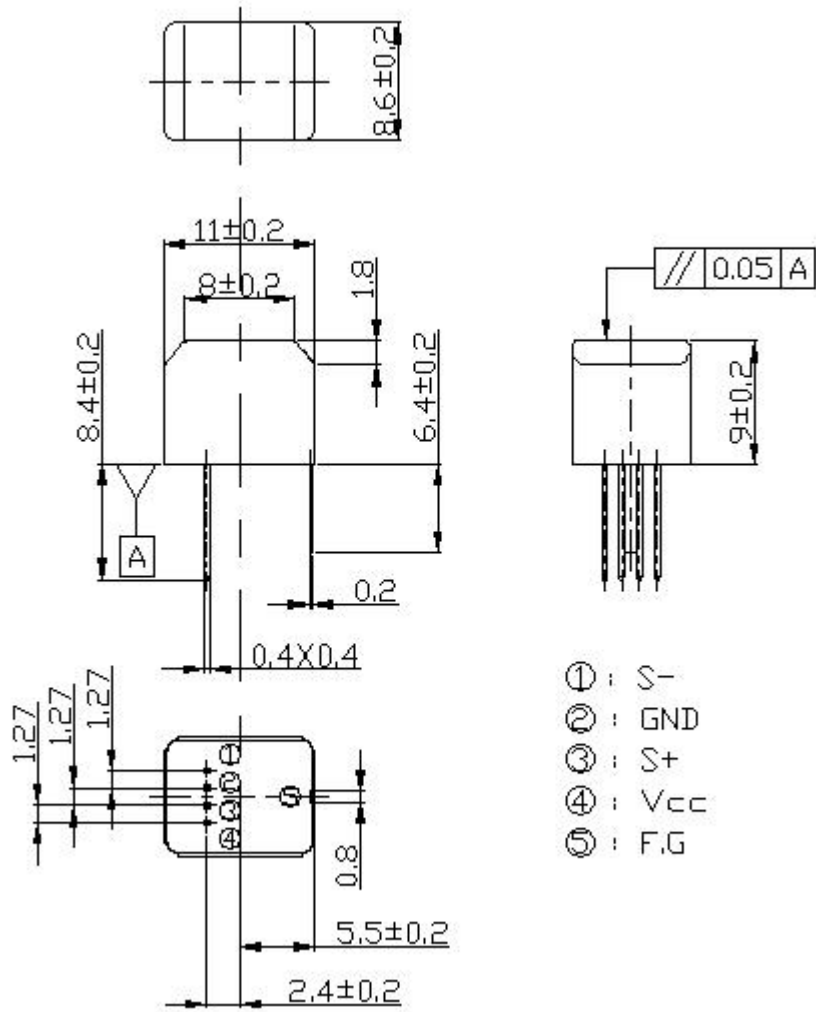


## Dimensions

LMJ-XM-006A



LMJ-XM-006B



# LMJ-XM-006C

