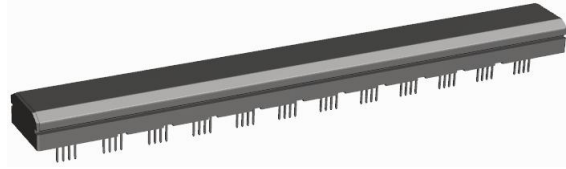


# LTJ-XM-120 Series



## Features

- 1 High sensitivity and excellent gap characteristics
- 2 Uniform sensitivity for all channels.
- 3 Output voltage is independent of scanning speed.
- 4 Excellent CMRR performance due to differential design.
- 5 Each Sensor has detection width of 120mm, without non-detection area.
- 6 LTJ-XM-120 has 12x channels and channel width of 10 mm.

## Applications

- 1 Bank note validator
- 2 Magnetic ink document reader

## Absolute parameters

Item		Value	Unit
Max. Supply Voltage	$V_a \text{ max}$	6	V
Isolation Voltage	$V_I$	200	V
Working Temperature	$T_{\text{opg}}$	-40~+85	°C
Storage Temperature	$T_{\text{stg}}$	-50~+95	°C
Working Humidity	$H_{\text{Rh}}$	10% ~ 90%	
ESD Level (HBM)		2	kV

## Electrical specifications (Ta = 25°C)

Item		Condition	Min	Typ	Max	Unit
Supply Voltage	$V_{\text{cc}}$		1	5	5.5	V
Resistance	R			2		kOhm
Offset	$V_d$	$V_a = 5 \text{ V}$		2.5		V
Sensitivity ①	$V_{\text{P-P}}$	$V_a = 5 \text{ V}$		1.5		mV
Noise	$V_{\text{nw}}$	$V_a = 5 \text{ V}, R_I=10\text{k}$			50	uV

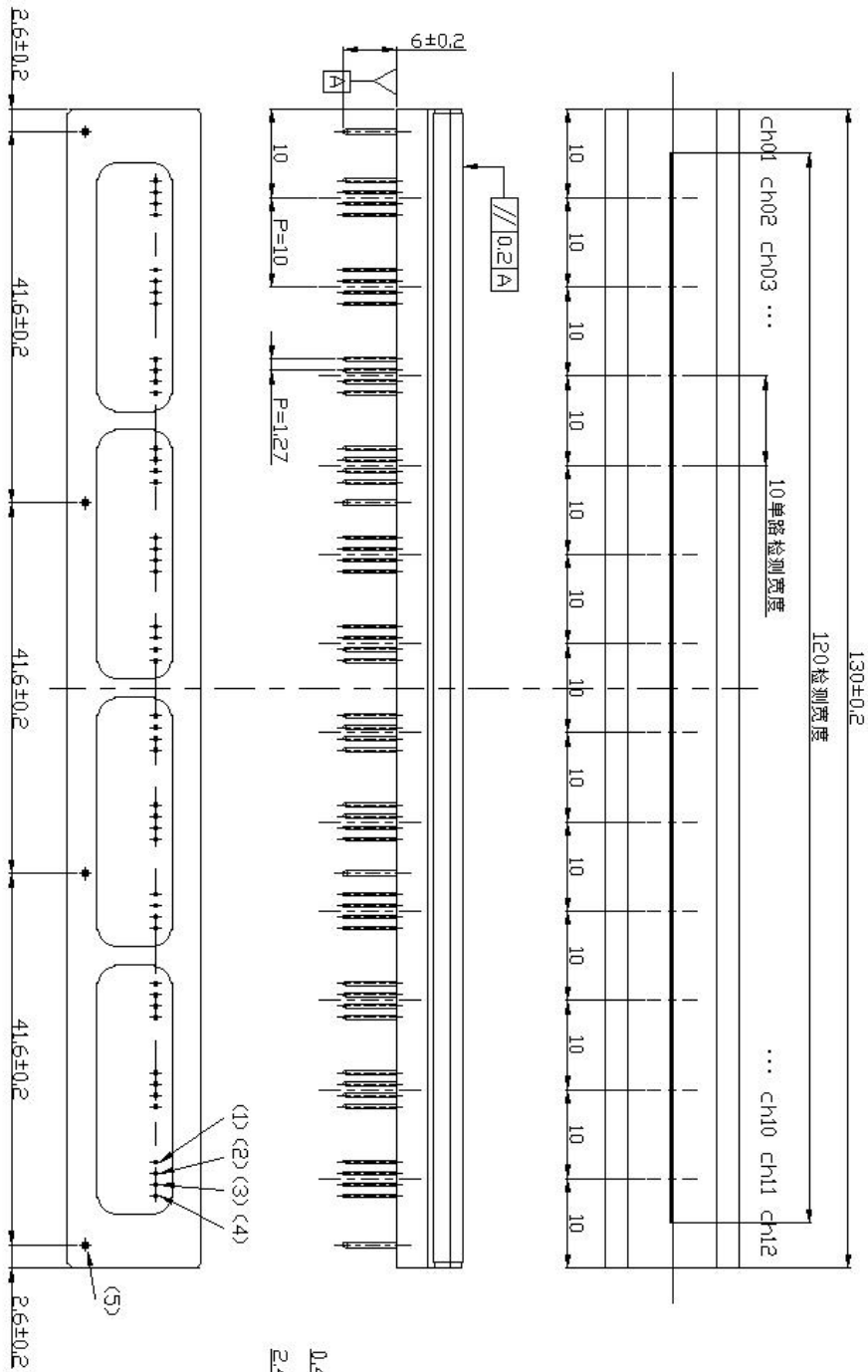
① The sensitivity can be calculated by using the testing method described below.

## Physical parameters

Item		Part Number	Min	Typ	Max	Unit
Detection Width	Wd	LTJ-XM-120		120		mm
Surface Field ①	H	LTJ-XM-120		500		Gs
Channel width	Wc	LTJ-XM-120		10		mm

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

# Dimensions



- (1) : VCC
- (2) : S+
- (3) : GND
- (4) : S-
- (5) : FIG