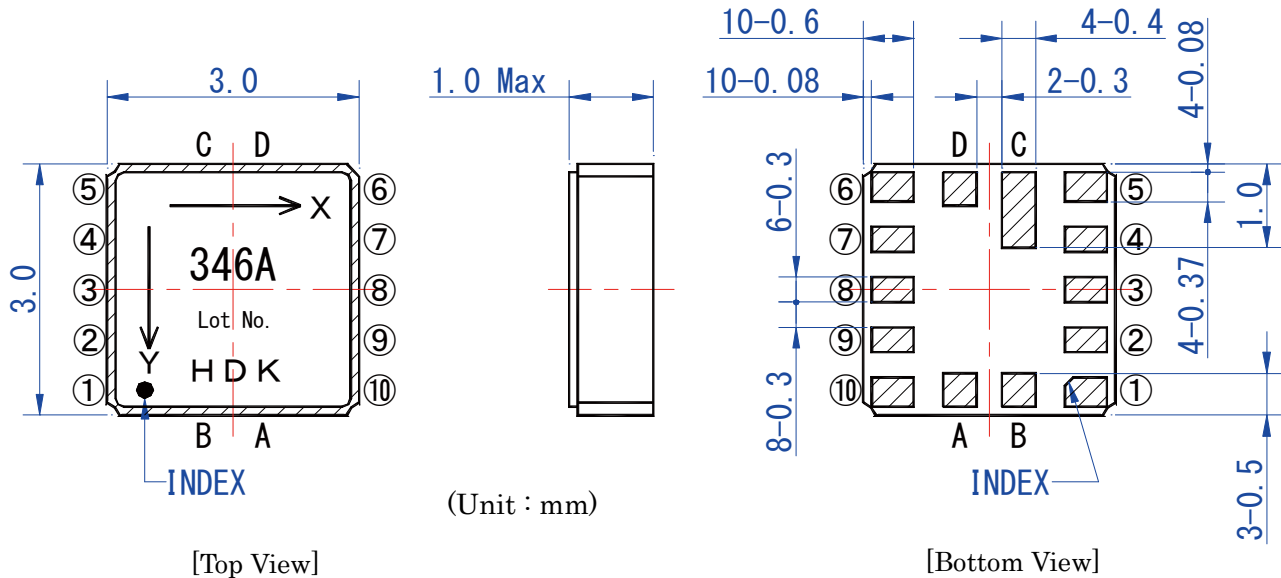




# Piezoresistive 3-Axis Acceleration Sensor

HAAM-346A/B

## ■ Outline & Dimensions



## ■ Terminal Assignment

No	Pin	Function
1	GND	Ground
2	STANBY	L:Standby / H:Operating
3	INT2 *1	Interrupt Signal 2 When one of either X or Y or Z output exceeds preset threshold (1.5G), this terminal outputs High. Otherwise, it stays Low.
4	INT1 *1	Interrupt Signal 1 When all X, Y, Z outputs go below set threshold (0.4G), this terminal outputs High. Otherwise, it stays Low.
5	NC	
6	VDD	Power Supply
7	LCA	Connect capacitor for internal circuit.
8	X OUT	Analog Output X
9	Y OUT	Analog Output Y
10	Z OUT	Analog Output Z

\*1 : Interrupt thresholds are set up individually at our factory.

\*2 : Please leave A~D unconnected.



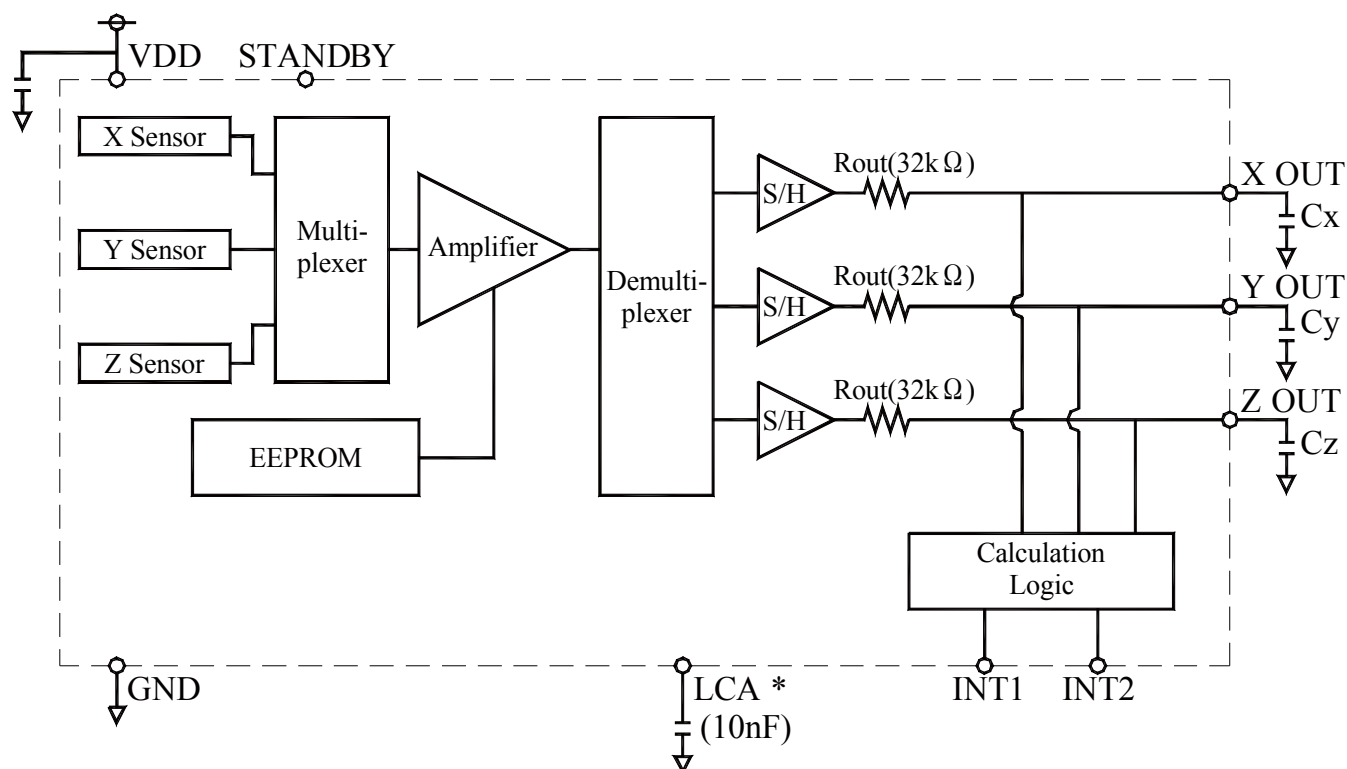
# Piezoresistive 3-Axis Acceleration Sensor

HAAM-346A/B

## ■ Specification

Item	HAAM-346A			HAAM-346B			Unit	Note
	Min	Typ	Max	Min	Typ	Max		
Operating Condition								
Storage Temperature Range	-40		85	-40		85	°C	
Operating Temperature Range	-25		75	-25		75	°C	
Supply Voltage	2.2		3.6	2.2		3.6	V	Ratiometric
Supply Current		0.35	0.5		0.35	0.5	mA	at Mode B, Vdd=3.0V
Supply Current at Standby Mode		1	5		1	5	uA	
Turn-on Time (at C=0.01μF)		2			2		msec	Until it becomes 99%
Shock Resistance	5000			5000			G	
Electrical Characteristics (Ta=25°C, Vdd=3.0V)								
Rated Acceleration	-3		3	-2		2	G	
Offset Voltage	1.425	1.5	1.575	1.425	1.5	1.575	V	Ratiometric against Supply Voltage
Offset Temperature Characteristics	-10		10	-10		10	%FS/G	△ from 25°C
Sensitivity	297	330	363	360	400	440	mV/G	Ratiometric against Supply Voltage
Linearity of sensitivity	-1		1	-1		1	%FS	
Sensitivity Temperature Characteristics	-3		3	-3		3	%FS/G	△ from 25°C (25°C~75°C)
Sensitivity Temperature Characteristics	-15		15	-15		51	%FS/G	△ from 25°C (-25°C~25°C)
Cross-Axis Sensitivity	-5		5	-5		5	%	
Resonant Frequency	DC		500	DC		500	Hz	at Mode A at Mode B

## ■ Block Diagram



\*Please connect 10nF (tentative value) capacitor to LCA for use.