


**GYRO SENSOR
FOR AUTOMOTIVE**

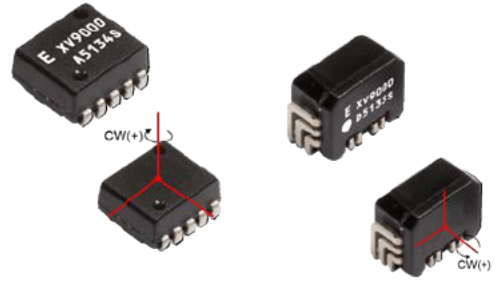

Product number
 XV-9100LV: X2A000031xxx00
 XV-9100LP: X2A000041xxx00
 XV-9300LV: X2A000051xxx00
 XV-9300LP: X2A000061xxx00

XV-9100LV / LP XV-9300LV / LP

- Wide temperature support, up to +125degree, good for engine room usage.
- High reliability by installing the self diagnosis function
- Ultra small and light weight using the original Double-T structure quartz crystal element.
- Excellent performance of shock-resistance and vibration-resistance.
- High reliability and connectivity to PCB using J-head terminal.
- Conforms to AEC-Q100 (please contact us)

Recommended Application

- Electric Stability Control System / Rollover Protection System


Specifications (characteristics)

Item	Symbol	Specifications		Conditions / Remarks
		XV-9100LV / LP	XV-9300LV / LP	
Supply Voltage	V _{DD}	5.0 V ±0.25 V		
Temperature range	Storage Temperature	-40 C to +125 C		
	Operating Temperature	-40 C to +125 C		
Scale factor	S ₀	0.004 × V _{DD} mV/(°/s)	0.0012 × V _{DD} mV/(°/s)	
Bias	V ₀	0.5 × V _{DD} V Typ.		
Rate range	I	±100 °/s	±300 °/s	
Non linearity	NL	±0.5 % FS		
Frequency response	BW	52.6 Hz Typ.		-3dB point
Cross axes	OS	±5 %		T _a =+25 C
Current consumption	I _{OP}	6.7 mA Typ.		V ₀ : Output No load condition
Noise	rN	1.0 (°/s) p-p Max.	3.3 (°/s) p-p Max.	5kHz sampled at 200ms
Start-up time	T _{ACT}	300 ms Max.		

Product Name
(Standard form)

XV-9100LV ** ***** kHz

① ② ③

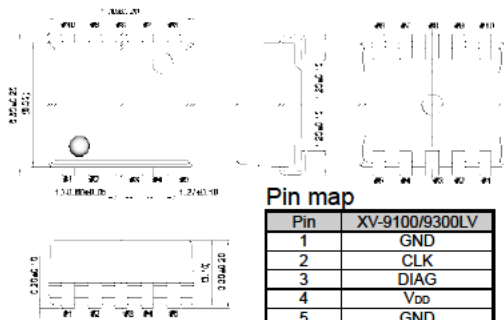
①Model

②Package type

③Frequency (not necessary to specify)

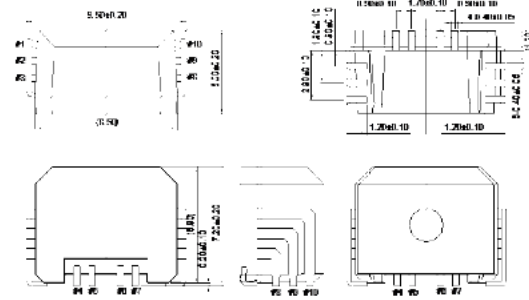
External Dimensions

(Unit:mm)

•XV-9100LV / XV-9300LV

Pin map

Pin	XV-9100/9300LV
1	GND
2	CLK
3	DIAG
4	V _{DD}
5	GND
6	N.C.
7	V _{out}
8	GND
9	CHECK
10	N.C.

Do not connect "N.C." pins externally devices.

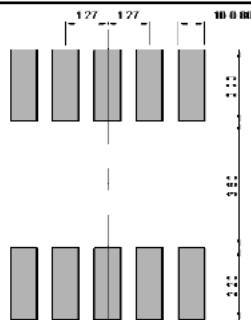
•XV-9100LP / XV-9300LP

Pin map

Pin	XV-9100/9300LP
1	CHECK
2	GND
3	V _{out}
4	N.C.
5	N.C.
6	GND
7	GND
8	V _{DD}
9	DIAG
10	CLK

Do not connect "N.C." pins externally devices.

Footprint (Recommended)

(Unit:mm)

**•XV-9100LV
•XV-9300LV**

**•XV-9100LP
•XV-9300LP**
