

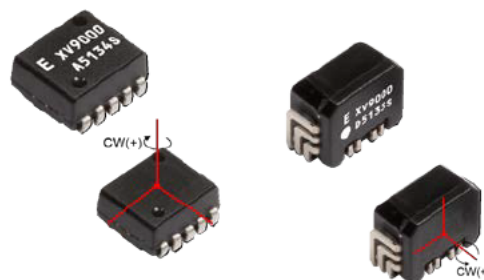
GYRO SENSOR
FOR AUTOMOTIVEXV-9100LV / LP
XV-9300LV / LP

Product number
 XV-9100LV: X2A000031xxxx00
 XV-9100LP: X2A000041xxxx00
 XV-9300LV: X2A000051xxxx00
 XV-9300LP: X2A000061xxxx00

- 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	VDD	5.0 V $\pm$ 0.25 V		
Temperature range	Storage Temperature	-40 C to +125 C		
	Operating Temperature	-40 C to +125 C		
Scale factor	So	$0.004 \times V_{DD}$ mV/(°/s)	$0.0012 \times V_{DD}$ mV/(°/s)	
Bias	V ₀	0.5 $\times$ VDD 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 %		Ta=+25 C
Current consumption	Iop	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	TACT	300 ms Max.		

Product Name
(Standard form)

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

① ② ③

①Model

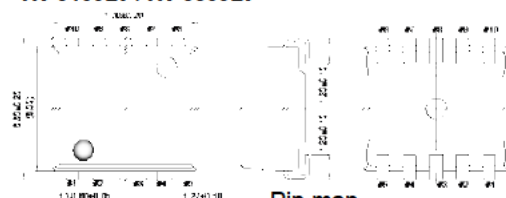
②Package type

③Frequency (not necessary to specify)

External Dimensions

(Unit:mm)

•XV-9100LV / XV-9300LV

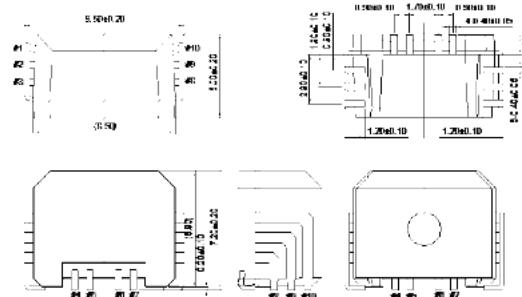


Pin map

Pin	XV-9100/9300LV
1	GND
2	CLK
3	DIAG
4	VDD
5	GND
6	N.C.
7	Vout
8	GND
9	CHECK
10	N.C.

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

•XV-9100LP / XV-9300LP



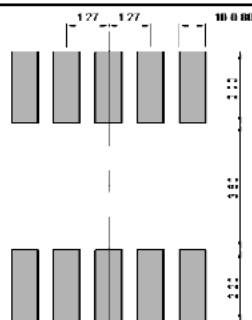
Pin map

Pin	XV-9100/9300LP
1	CHECK
2	GND
3	Vout
4	N.C.
5	N.C.
6	GND
7	GND
8	VDD
9	DIAG
10	CLK

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

Footprint (Recommended)

(Unit:mm)

•XV-9100LV
•XV-9300LV•XV-9100LP
•XV-9300LP