

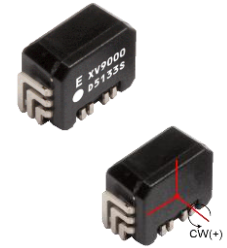
**GYRO SENSOR  
FOR AUTOMOTIVE**



Product number  
**XV-9300LP: X2A000061xxxx00**

**XV-9300LP**

- 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-lead terminal.
- Conforms to AEC-Q100 (please contact us)



**Recommended Application**

- Electric Stability Control System / Rollover Protection System

**Specifications (characteristics)**

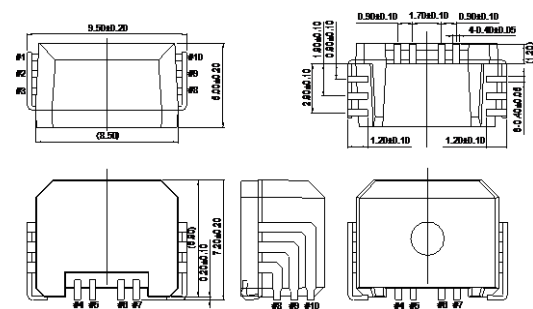
Item	Symbol	Specifications	Conditions / Remarks
Supply Voltage	V <sub>DD</sub>	5.0 V ±0.25 V	
Temperature range	Storage Temperature	T <sub>STG</sub>	-40 °C to +125 °C
	Operating Temperature	T <sub>OPR</sub>	-40 °C to +125 °C
Scale factor	S <sub>0</sub>	0.0012 × V <sub>DD</sub> mV/(°/s)	
Bias	V <sub>0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

Product Name (Standard form) **XV-9300 LP** \*\* \*\*\*\*\* kHz  
 ① Model    ② Package type    ③ Frequency (not necessary to specify )

**External Dimensions**

(Unit:mm)

**•XV-9300LP**



**Pin map**

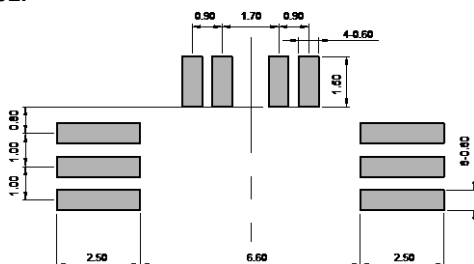
Pin	XV-9300LP
1	CHECK
2	GND
3	V <sub>out</sub>
4	N.C.
5	N.C.
6	GND
7	GND
8	V <sub>DD</sub>
9	DIAG
10	CLK

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

**Footprint (Recommended)**

(Unit:mm)

**•XV-9300LP**



## PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Seiko Epson, all environmental initiatives operate under the Plan-Do-Check-Action (PDCA) cycle designed to achieve continuous improvements. The environmental management system (EMS) operates under the ISO 14001 environmental management standard.

All of our major manufacturing and non-manufacturing sites, in Japan and overseas, completed the acquisition of ISO 14001 certification.





ISO 14000 is an international standard for environmental management that was established by the International Standards Organization in 1996 against the background of growing concern regarding global warming, destruction of the ozone layer, and global deforestation.

## WORKING FOR HIGH QUALITY

In order provide high quality and reliable products and services than meet customer needs, Seiko Epson made early efforts towards obtaining ISO9000 series certification and has acquired ISO9001 for all business establishments in Japan and abroad. We have also acquired IATF 16949 certification that is requested strongly by major automotive manufacturers as standard.

IATF 16949 is the international standard that added the sector-specific supplemental requirements for automotive industry based on ISO9001.

### ► Explanation of the mark that are using it for the catalog

	► Pb free.
	► Complies with EU RoHS directive. *About the products without the Pb-free mark. Contains Pb in products exempted by EU RoHS directive. (Contains Pb in sealing glass, high melting temperature type solder or other.)
	► Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.
	► Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc ).

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