GYRO SENSOR
FOR AUTOMOTIVE

Automotive Safety

Pb Free

RoHS Compliant

Product number
XV-9100CD: X2A000221xxxx00
XV-9300CD: X2A000231xxxx00

XV-9100CD
XV-9300CD





- Wide temperature support, up to +105degree.
- 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.
- Conforms to AEC-Q100 (please contact us)

Recommended Application

- Electric Stability Control System / Rollover Protection System

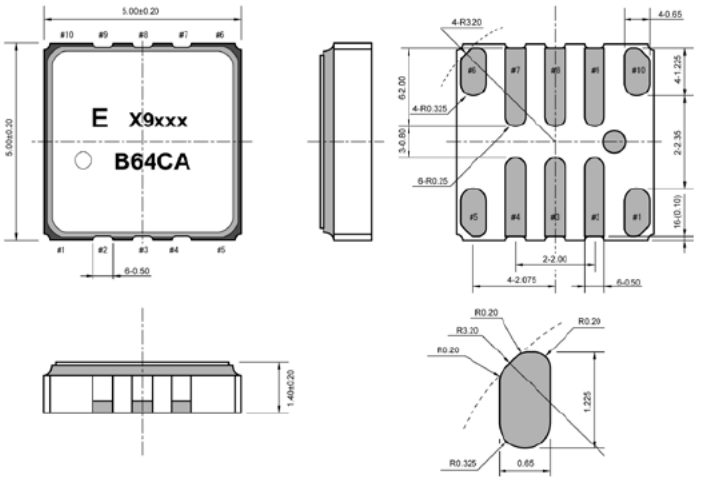
Specifications (characteristics)

Item		Symbol	Specifications		Conditions / Remarks
			XV-9100CD	XV-9300CD	
Supply Voltage		V_{DD}	5.0 V ±0.25 V		
Temperature range	Storage Temperature	T_{STG}	-40 C to +105 C		
	Operating Temperature	T_{OPR}	-40 C to +105 C		
Scale factor		So	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 %		Ta=+25 C
Current consumption		Iop	6.7 mA Typ.		Vo : 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-9100 CD ** ****** kHz
① ② ③
①Model ②Package type ③Frequency (not necessary to specify)

External Dimensions (Unit:mm)

•XV-9100CD / XV-9300CD



Pin map

Pin	XV-9100/9300CD
1	GND
2	CLK
3	DIAG
4	V_{DD}
5	GND
6	N.C.
7	Vout
8	GND
9	CHECK
10	N.C.

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

Footprint (Recommended) (Unit:mm)

•XV-9100CD / XV-9300CD

