

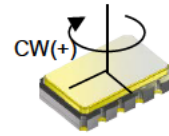
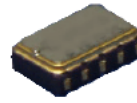


GYRO SENSOR (Digital Output)

XV7001BB

Product number
XV7001BB: X2A000261xxxx00

- SPI or I²C serial interface
- Angular rate output (16bit)
- Built-in temperature sensor
- Built-in selectable digital filter
- Low power consumption



Recommended Application

- Anti vibration and attitude control for industrial applications etc.
- Motion detection for man machine interface

*The I2C-Bus is a trademark of NXP Semiconductors

Specifications (characteristics)

Item	Symbol	Specifications	Conditions / Remarks
Supply Voltage	VDDM	2.7 to 3.6 V	
Supply Voltage for interface	VDDI	1.65 V to 3.60 V	
Temperature range	Storage Temperature	TSTG	-40 C to +85 C
	Operating Temperature	TOPR	-20 C to +80 C
Scale factor	So	280 LSB/(°/s) ±5 %	16bit, Ta=+25 C
Bias	ZRL	±1 °/s (0 LSB Typ.)	Ta=+25 C
Bias over temperature	ZRL _t	±5 °/s	Variation from Ta = +25 °C
Rate range	I	±100 °/s	
Non linearity	NI	±0.5 %FS	Ta=+25 C
Cross axes	CS	±5 %	Ta=+25 C
Current consumption	Iop1	0.9 mA Typ.	Not communicating
Stand-by current	Iop2	160 µA Typ.	
Sleep current	Iop3	3 µA Typ.	
Noise	Nd	0.003 (°/s)/√Hz	at 10Hz

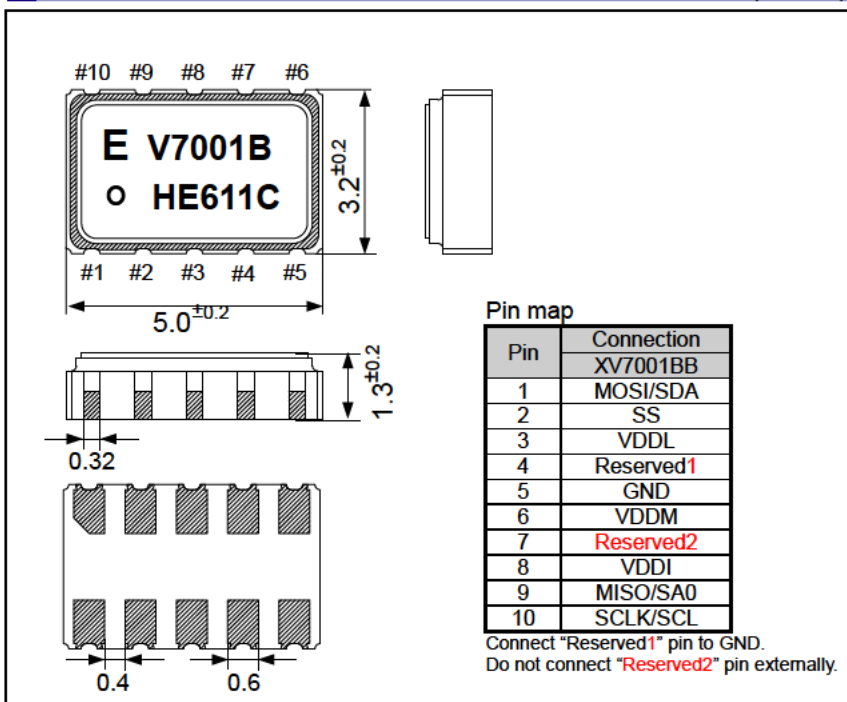
Product Name
(Standard form)

XV7001BB * *

- ①Model ②Detection axis (1:Z-axis) ③Package type(B: Ceramic 5032size)
④Output (B: SPI/I²C) ⑤Frequency ⑥Custom recognition(not necessary to specify)

External Dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)

