

ULTRA MINIATURE SIZE GYRO SENSOR

High stability double output

XV-3700CB

- Ultra Small Package size SMD(5 × 3.2 × 1.3 mm)
- Hermetic sealing provides excellent sustainable environmental capability
- High stability using vibration crystal
- Two separate outputs for high speed mode and low speed mode

Recommended Application

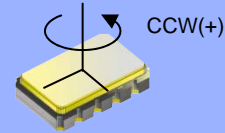
- Motion UI , RC helicopter and hobby with high detection range needs



Product number (please contact us)
X2A000021xxxx00



Actual size



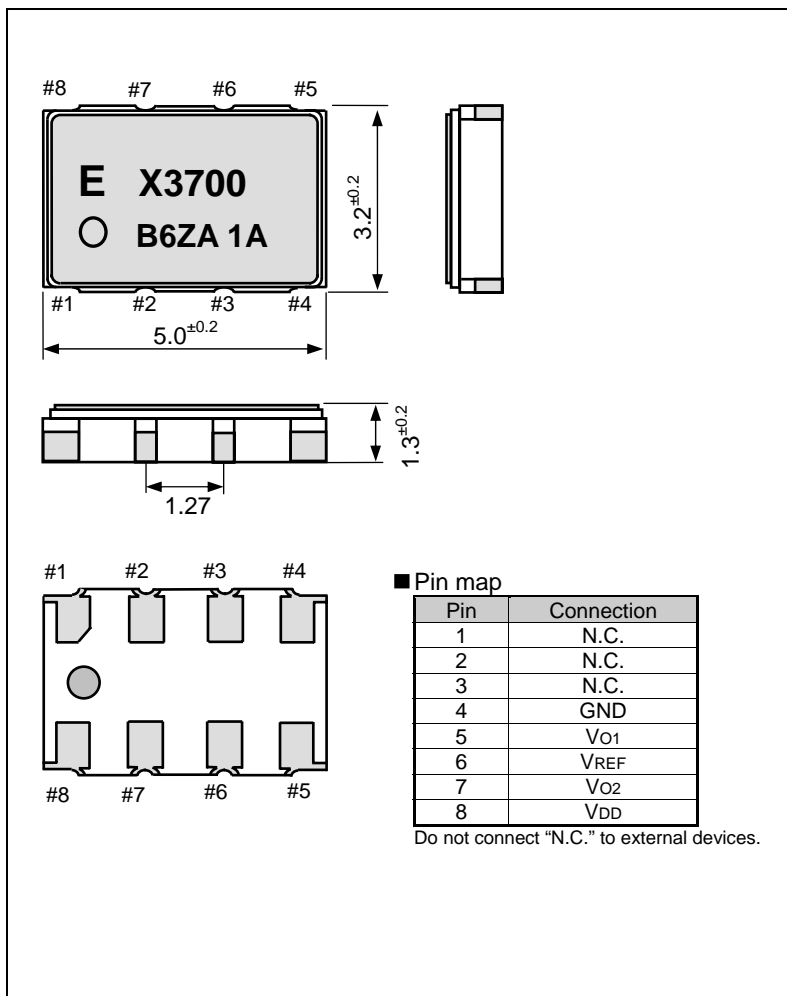
NEW

Specifications (characteristics)

Item	Symbol	Specifications	Remarks	
Supply voltage	VDD	3.0 V ±0.3 V	VSS=0 V	
Temperature range	Storage Temperature	TSTG	-40 °C to +85 °C	
	Operating Temperature	TOPR	-20 °C to +80 °C	
Scale Factor	VO1	SO1	0.8 mV/(°·s ⁻¹) Typ.	
	VO2	SO2	3.624 mV/(°·s ⁻¹) Typ.	
Rate Range	VO1	I1	±1500 deg/s	For the out of standard specifications, please contact us for inquiries.
	VO2	I2	±300 deg/s	
Non linearity	NI	±5 % FS Max.	Ta=+25 °C	
Bias (VO1, VO2)	V0	1500 mV Typ.	Ta=+25 °C	
Reference Voltage	Vr	1500 mV Typ.	Ta=+25 °C	
Current consumption	Iop	2.2 mA Typ.	Vo,Vr : Output No load condition	

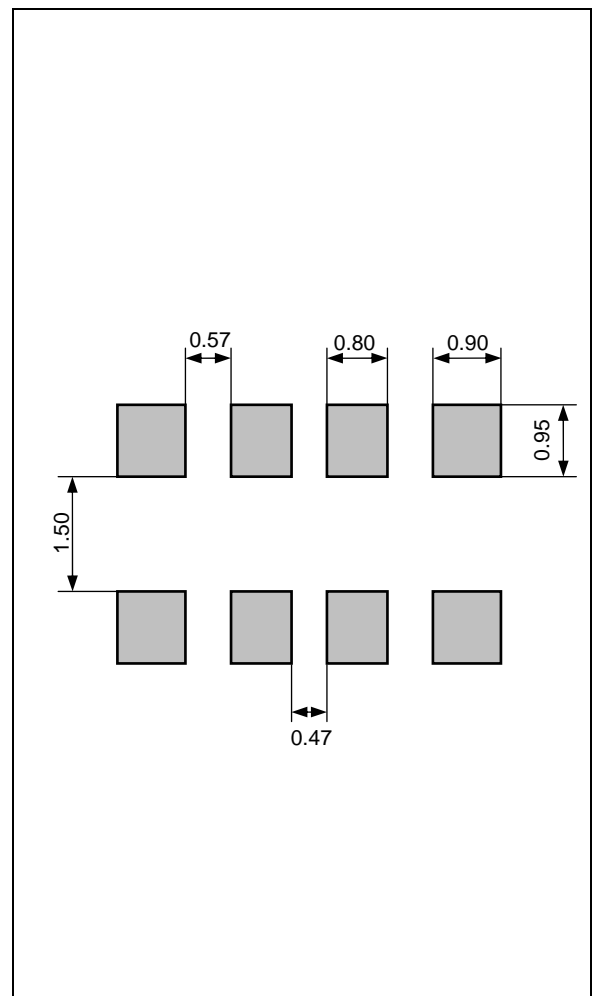
External Dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)



“QMEMS” EPSON TOYOCOM

In order to meet customer needs in a rapidly advancing digital, broadband and ubiquitous society, we are committed to offering products that are one step ahead of the market and a rank above the rest in quality. To achieve our goals, we follow a “3D (three device) strategy” designed to drive both horizontal and vertical growth. We will to grow our three device categories of “Timing Devices”, “Sensing Devices” and “Optical Devices”, and expand vertical growth through a combination of products from these categories.

A Quartz MEMS is any high added value quartz device that exploits the characteristics of quartz crystal material but that is produced using MEMS (micro-electro-mechanical system) processing technology.

Market needs are advancing faster than previously imagined toward smaller, more stable crystal products, but we will stay ahead of the curve by rolling out products that exceed market speed and quality requirements. We want to further accelerate the 3D strategy by QMEMS.

Quartz devices have become crucial in the network environment where products are increasingly intended for broadband, ubiquitous applications

and where various types of terminals can transfer information almost immediately via LAN and WAN on a global scale. Epson Toyocom Corporation addresses every single aspect within a network environment. The new corporation offers “Digital Convergence” solutions to problems arising with products for consumer use, such as, core network systems and automotive systems.



QMEMS

QMEMS and its logos are registered trademarks or trademarks of Epson Toyocom Corporation in Japan and other countries.

PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Epson Toyocom, 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,

Epson Toyocom made early efforts towards obtaining ISO9000 series certification and has acquired ISO9001 for all business establishments in Japan and abroad. We have also acquired ISO/TS 16949 certification that is requested strongly by major automotive manufacturers as standard.

ISO/TS16949 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.)
	► The products have been designed for high reliability applications such as Automotive.

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