



Oven Controlled Crystal Oscillator (OCXO)

TCO - 6730

- Features : Excellent long and short term stability
- : Low phase noise
- : SC-Cut Crystal unit

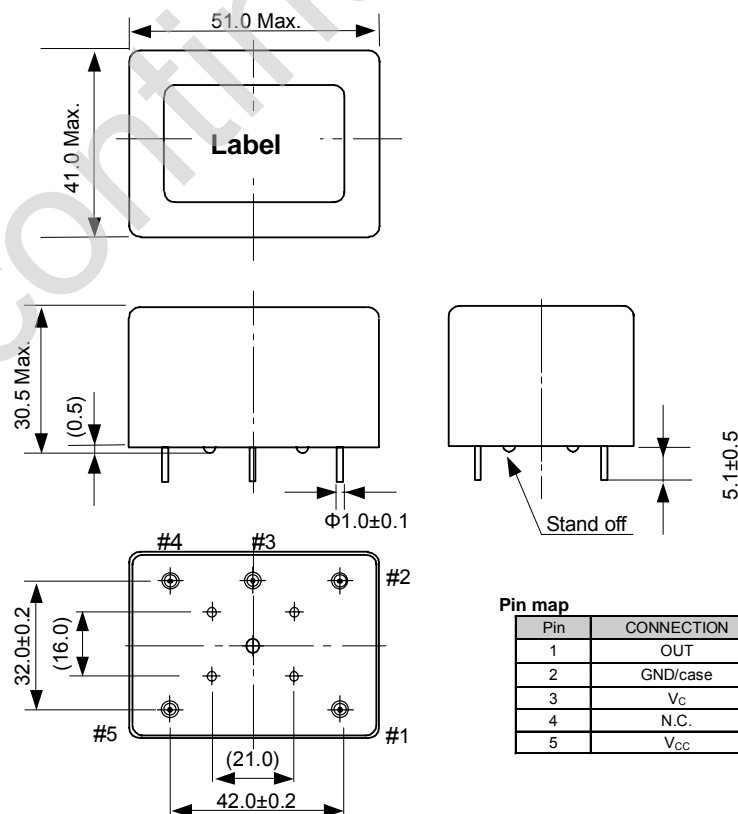


Specifications (characteristics)

Item	Symbol	Specifications	Remarks
Standard frequency	f_0	5 MHz, 10 MHz	
Supply voltage	Vcc	12 V \pm 0.6 V	
Storage temperature range	T_stg	-20 °C to +80 °C	During transport only. Long term storage: Room Temperature.
Operating temperature range	T_use	0 °C to +65 °C	
Frequency/temperature coefficient	fo-Tc	$\pm 2.5 \times 10^{-9}$ Max.	0 °C to +65 °C
Frequency/voltage coefficient	fo-Vcc	$\pm 3 \times 10^{-10}$ Max.	Vcc=12 V \pm 0.6 V
Frequency aging	f_aging	$\pm 2 \times 10^{-10}$ / day Max. $\pm 3 \times 10^{-8}$ / year Max.	
Warm-up	—	$\pm 8 \times 10^{-8}$ / 10 min Max.	+25 °C
Current consumption	Warm-up	600 mA Max.	
	Steady state	220 mA Max.	at +25 °C
Frequency control range	fcont	$\pm 3 \times 10^{-7}$ Min.	Vc=5 V \pm 5 V
Symmetry	SYM	45 % to 55 %	at +1.4 V
High output voltage	VOH	2.4 V Min.	TTL level
Low output voltage	VOL	0.4 V Max.	
Output load condition	L_TTL	2 TTL Max.	
Weight	—	150 g Max.	

External dimensions

(Unit:mm)



“Quartz + MEMS” 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.

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. In the future, new group companies will be expected to acquire the certification around the third year of operations.

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 to provide high quality and reliable products and services that 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.

QS-9000 is an enhanced standard for quality assurance systems formulated by leading U.S. automobile manufacturers based on the international ISO 9000 series.

ISO/TS 16949 is a global standard based on QS-9000, a severe standard corresponding to the requirements from the automobile industry.

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/ Medical instruments to sustain life / Submarine transmitters / Power stations and related / Fire work equipment and security equipment
/ traffic control equipment / and others requiring equivalent reliability.
- In this new crystal master for Epson Toyocom, product codes and markings will remain as previously identified prior to the merger.
Due to the on-going strategy of gradual unification of part numbers, please review product codes and markings, as they will change during the course of the coming months.
We apologize for the inconvenience, but we will eventually have a unified part numbering system for Epson Toyocom that will be user friendly.