

查询"TCO-676"供应商

Oven Controlled Crystal Oscillator (OCXO)

TCO-676 series

- Features : Compact and low profile
- : Very fast warm-up
- : SC-Cut Crystal unit



Product number (please contact us)
X1G002291xxxx00

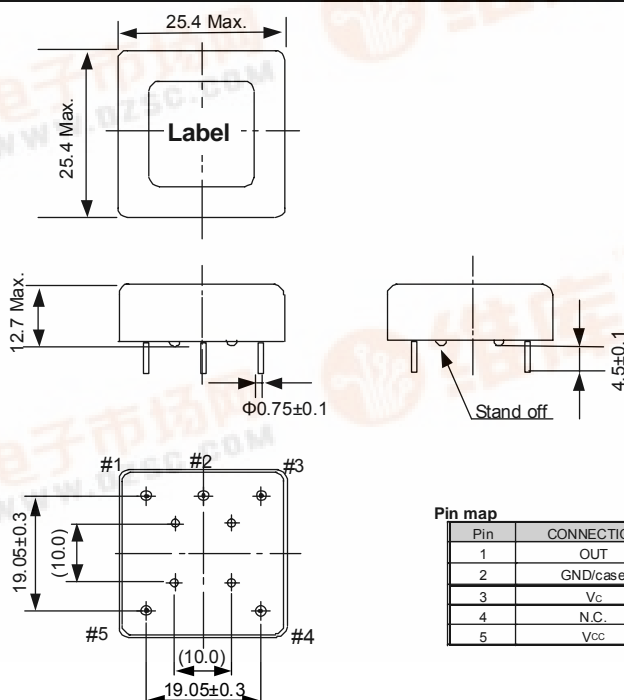


Specifications (characteristics)

Item	Symbol	Specifications			Remarks
		TCO-676R3	TCO-676R2	TCO-676R	
Output frequency range	f_o	10 MHz to 20 MHz			Standard frequency
		17 MHz	10 MHz		
Supply voltage	V _{cc}	3.3 V ±0.165 V	5 V ±0.25 V	12 V ±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}	-10 °C to +70 °C			
Frequency/temperature characteristics	f_o -T _c	±2 × 10 ⁻⁸ Max.			-10 °C to +70 °C
Frequency/voltage coefficient	f_o -V _{cc}	±5 × 10 ⁻⁹ Max. V _{cc} =3.3 V ±0.165 V	±5 × 10 ⁻⁹ Max. V _{cc} =5 V ±0.25 V	±5 × 10 ⁻⁹ Max. V _{cc} =12 V ±0.6 V	
Frequency aging	f_{age}	±1 × 10 ⁻⁸ / day Max. ±1 × 10 ⁻⁷ / year Max.			
Warm-up	—	±5 × 10 ⁻⁸ / 5 min Max.			+25 °C
Current consumption	Warm-up	1150 mA Max.	700 mA Max.	300 mA Max.	at +25 °C
	Steady state	650 mA Max.	300 mA Max.	130 mA Max.	
Frequency control range	f_{cont}	±1 × 10 ⁻⁶ Min. V _c =1.65 V ±1.65 V	±1 × 10 ⁻⁶ Min. V _c =2.5 V ±2.5 V		
Symmetry	SYM	45 % to 55 %			(V _{OH} -V _{OL})/2
High output voltage	V _{OH}	2.4 V Min.	4.0 V Min.	4.0 V Min.	V _{cc} =3.3 V:3.3 V Level CMOS
Low output voltage	V _{OL}	0.4 V Max.	0.5 V Max.	0.5 V Max.	V _{cc} =5 V, 12 V:5 V Level CMOS
Load resistance	Load_R	10 kΩ			
Load capacitance	Load_C	10 pF			
Weight	—	20 g Max.			

External dimensions

(Unit:mm)



Pin map

Pin	CONNECTION
1	OUT
2	GND/case
3	V _c
4	N.C.
5	V _{cc}

“QMEMS” EPSON TOYOCOM

查询"TCO-0.7%以内"供应商

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.

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

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.

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.

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.

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

	<ul style="list-style-type: none"> ► Pb free. ► Complies with EU RoHS directive.
	<ul style="list-style-type: none"> ► Pb free terminal designed. Contains Pb in products exempted by RoHS directive. (Contains Pb in sealing glass, high melting temperature type solder or other.) ► Complies with EU RoHS directive.
	<ul style="list-style-type: none"> ► The products have been designed for high reliability applications such as Automotive.

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 - / Space equipment (artificial satellites, rockets, etc.) / Transportation vehicles and related (automobiles, aircraft, trains, vessels, etc.)
 - / 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.

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