TCXO MINIATURE SIZE LOW PROFILE

TG-5005CG

•Frequency range : 13 MHz to 40 MHz

•Supply voltage : 2.8 V Typ.

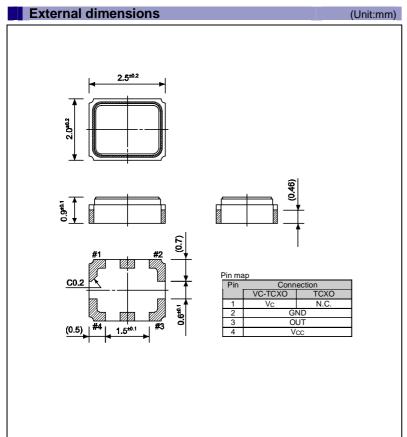
•Applications : Cellular phone(GPS)

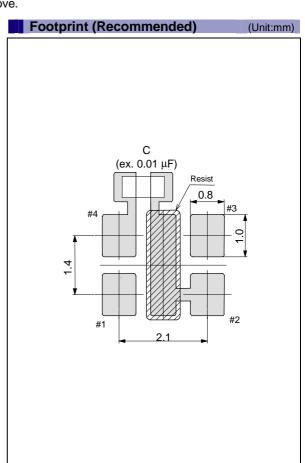


Specifications (characteristics)

Item		Symbol	Specifications		Remarks
			VC-TCXO	TCXO	i Keillaiks
Output frequency		fo	13.000 MHz to 40.000 MHz		
			16.369 MHz, 24.5535 MHz, 26 MHz, 27.456 MHz		Standard frequency
Supply voltage		Vcc	2.8 V±0.14 V		
Temperature	Storage temperature	T_stg	-40 °C to +85 °C		Store as bare product after unpacking
range	Operating temperature	T_use	-30 °C to	+85 °C	
Frequency tolerance		F_tol(osc)	±2.0 ×10 ⁻⁶ Max.		After reflow,
					Vc=1.4 V, +25 °C
Frequency / temperature coefficient		F₀-Tc	±0.5 × 10 ⁻⁶ Max.		-30 °C to +85 °C
Frequency / load coefficient		F₀-Load	±0.2 × 10 ⁻⁶ Max.		10 kΩ // 10 pF ±10 %
Frequency / voltage coefficient		Fo-Vcc	±0.2 ×10 ⁻⁶ Max.		2.8 V ± 0.14 V
Frequency aging		F_aging	±1.0 ×10 ⁻⁶ Max.		+25 °C, First year
Current consumption		Icc	2.0 mA Max.		Vcc=2.8 V, 10 kΩ// 10 pF
Input resistance		Rin	500 kΩ Min.	_	Vc- GND (DC), Vc=1.4 V
Frequency control range		Fcont	$\pm 5.0 \times 10^{-6}$ to $\pm 12.0 \times 10^{-6}$	_	Vc=1.4 V ±1.0 V
Frequency change polarity		_	Positive polarity	<u>—</u>	
Symmetry		SYM	40 % to 60 %		GND level (DC cut)
Output level		VPP	0.8 V Min.		Peak to peak
Load resistance		Load_R	10 kΩ		DC cut capacitor = 0.01 μF
Load capacitance		Load_C	10 pF		

Note:Please contact us for inquiries about specifications other than the above.





"3D STRATEGY" 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.

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

Epson Toyocom quickly began working to acquire company-wide ISO 9000 series certification, and has acquired ISO 9001 or ISO 9002 certification for all targeted products manufactured in Japanese and overseas plants.

Epson Toyocom has acquired QS-9000 certification, which is of a higher level.

Also, TS 16949 certification, which is also of a higher level, has been acquired.

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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- •These products are intended for general use in electronic equipment. When using them in specific applications that require extremely high reliability, such as the applications stated below, you must obtain permission from Epson Toyocom in advance.
- / 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.