TCXO MINIATURE SIZE LOW PROFILE

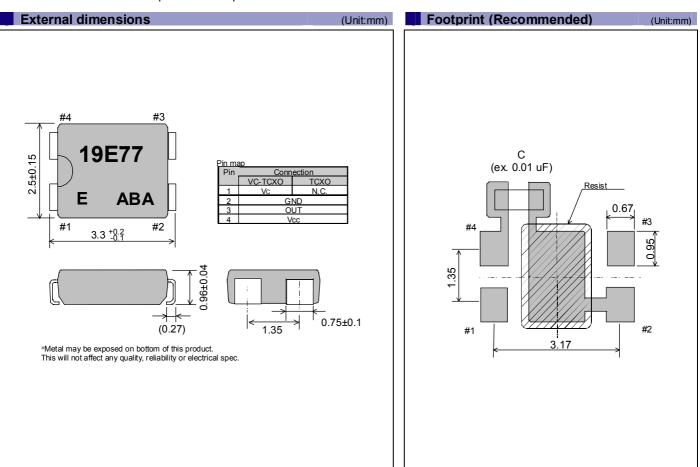
TG-5010LH

- •Frequency range
- : 10 MHz to 38.4 MHz
- Supply voltageApplications
- •Lead(Pb)-free
- : 2.8 V Typ.: Cellular phone(GSM,CDMA,WCDMA)
- : Lead free completely
- Actual size

Specifications (characteristics)

ltem		Symbol	Specifications		Remarks
			VC-TCXO	TCXO	Remarks
Output frequency		fO	10 MHz to 38.4 MHz		
			13 MHz, 19.2 MHz, 26 MHz		Standard frequency
Supply voltage		Vcc	2.8 V±0.14 V		
Temperature	Storage temperature	T_stg	-40 °C to +85 °C		Stored as bare product after unpacking
range	Operating temperature	T_use	-30 °C to +85 °C		
Frequency tolerance		F_tol(osc)	±2.5 ×10 ⁻⁶ Max.		After reflow,
					Vc=1.4 V, +25 °C
Frequency / temperature coefficient		Fo-Tc	±2.0 × 10 ⁻⁶ Max.		-30 °C to +85 °C
Frequency / load coefficient		Fo-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		lcc	1.5 mA Max.		19.2 MHz,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	±5.0 × 10 ⁻⁶ to ±12.0 ×10 ⁻⁶		Vc=1.4 V ±1.0 V
Frequency change polarity			Positive polarity		
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.



End to End EPSON TOYOCOM

The development of our ubiquitous network society has caused a diversification of applications and has increased the demand for high-level quartz devices in terms of quality, quantity, and function.

The Quartz Device Operations Division of SEIKO EPSON CORPORATION (EPSON)and TOYO COMMUNICATION EQUIPMENT CO.,LTD.(TOYOCOM) were integrated on October 1,2005 to establish a new company, EPSON TOYOCOM CORPORATION, to meet these market and customer demands.

Each company contributes its own strength; EPSON holds a strong presence in consumer products and TOYOCOM is strong in industrial products. The consolidation of these two companies in a new company that provides advanced expertise with a wide range of products for terminals and infrastructure to our customers.

Quartz device 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 "end-to-end" solutions to problems arising with products for consumer use, such as core network systems and automotive systems.

PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING INTERNATIONAL STANDARD

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. In May 2001, 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 aquire company-wide ISO 9000 series certification, and has acquired ISO 9001 or ISO 9002 certification with all targeted products manufactured in Japanese and overseas plants.

The Quartz Device Operations Division (Ina Japan, EPM and SZE) have acquired QS-9000 certification, which are of higher Level.

Also QS-9000 and TS 16949 certification, which is of 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 automobile industry.

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- In this new crystal master for EPSON TOYOCOM, product code and marking will still remain as previously identified prior to the merger. Due to the on going strategy of gradual unification of part numbers, please review product code and marking 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 which will be user friendly.