TCXO/VC-TCXO Image: Stability Product Number (Ple X1G004681XXXX00) HIGH STABILITY Image: Stability Image: Stability TG1612SAN Image: Stability Image: Stability	
TG1612SAN	
•Output frequency : 13 MHz to 52 MHz •Supply voltage : 1.8V Typ / 2.8V typ / 3.0V typ. / 3.3V typ •Frequency / temperature characteristics : ±0.5 × 10 ⁶ Max. or ±2.0 × 10 ⁶ Max •External dimensions: 1.6 × 1.2 × 0.65 mm •Applications : GPS, RF •Features : High stability, Ultra small size	

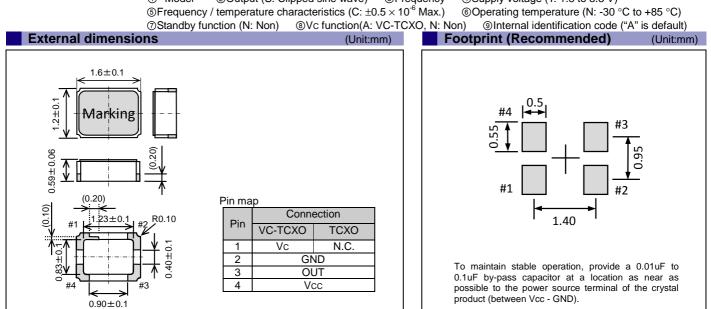
Item	Symbol	VC-TCXO	ТСХО	Conditions / Remarks
Output frequency range	fo	13 MHz to 52MHz		
	10	16.369 MHz, 26 MHz		Standard frequency
Supply voltage	Vcc	1.8 V ±0.1 V / 2.8 V ±5 % / 3.0 V ±5 % / 3.3 V ±5 %		Supply voltage range :1.7 V to 3.63 V
Storage temperature	T_stg	-40 °C to +90 °C		Storage as single product.
Operating temperature	T_use	G: -40 °C to +85 °C / N: -30 °C to +85 °C		
Frequency tolerance	f_tol	±2.0 × 10 ⁻⁶ Max.		After reflow, +25 °C
Frequency/temperature fo-Tc characteristics		-	C: ±0.5 × 10 ⁻⁶ Max. / N: -30 °C to +85 °C	High stability version (for GPS)
	fo-Tc	F: ±2.0 × 10 ⁻⁶ Max. / N: -30 °C to +85 °C	F: ±2.0 × 10 ⁻⁶ Max. / N: -30 °C to +85 °C	Standard stability version (for RF)
		J: ±1.0 × 10 ⁻⁶ Max. / G: -40 °C to +85 °C	C: ±0.5 × 10 ⁻⁶ Max. / G: -40 °C to +85 °C	Customized product (Option)
Frequency/load coefficient	fo-Load		10 ⁻⁶ Max.	10 kΩ // 10 pF ±10 %
Frequency/voltage coefficient	fo-Vcc	$\pm 0.2 \times 10^{-6}$ Max.		Vcc ± 5 %
	fago	±1.0 × 10 ⁻⁶ Max.		+25 °C, First year, 13 MHz≤ fo ≤40 MHz
Frequency aging	f_age	±1.5 × 10 ⁻⁶ Max.		+25 °C ,First year, 40 MHz< fo ≤52 MHz
Current consumption	Icc	1.5 mA Max.		13 MHz≤ fo ≤26 MHz
		2.0 mA Max		26MHz <fo< td=""></fo<>
nput resistance	Rin	500 kΩ Min.	-	Vc - GND (DC)
Frequency control range	f_cont	$\pm 8.0 \times 10^{\text{-6}}$ to $\pm 15.0 \times 10^{\text{-6}}$	-	Vc =0.9 V ±0.6 V (Vcc =1.8 V) or Vc =1.4 V ±1.0 V (Vcc =2.8 V) or Vc =1.5 V ±1.0 V (Vcc =3.0 V) or Vc =1.65 V ±1.0 V (Vcc =3.3 V)
Frequency change polarity	-	Positive polarity	-	
Symmetry	SYM	40 % to 60 %		GND level (DC cut)
Dutput voltage	Vpp	0.8 V Min.		Peak to Peak
Start-up time	t_str	2.0 ms Max.		T=0 at 90% Vcc
Output load condition	Load_R	10 kΩ		DC cut capacitor = 0.01 μ F
	Load_C	10 pF		$DO COUCAPACILOI = 0.01 \mu r$

* Note : Please contact us for requirements not listed in this specification.

Product Name (Standard form)
 TG1612 SAN 26.00000MHz
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④Supply voltage (T: 1.8 to 3.3 V)



PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Seiko Epson, 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.

WORKING FOR HIGH QUALITY

In order provide high quality and reliable products and services than meet customer needs,

Seiko Epson 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.

Explanation of the mark that are using it for the catalog

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.

ISO/TS16949 is the international standard that added the sector-specific supplemental requirements for automotive industry based on ISO9001.

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For Automotive	► Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.
Automotive Safety	► Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc).

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