



TCXO ULTRA MINIATURE SIZE LOW PROFILE HIGH STABILITY TG - 5035CJ-36N

- Frequency range : 16.368 MHz
- Supply voltage : 1.8 V, 2.8 V and 3.0 V Typ.
- Frequency / temperature characteristics : $\pm 0.5 \times 10^{-6}$ Max.
- External dimensions: 2.0 x 1.6 x 0.73 mm
- Applications : Mobile devices (GPS)
- Features : High stability
: Low supply voltage (1.8 V)



Product Number (Please contact us)
X1G003841002900



Actual size



Note: The marking is different from the actual one

Specifications (characteristics)

Item	Symbol	Specifications	Conditions / Remarks
Output frequency range	f _o	16.368 MHz	
Supply voltage	V _{cc}	1.8 V \pm 0.1 V, 2.8 V \pm 0.1V, 3.0 V \pm 0.1V	
Storage temperature	T _{stg}	-40 °C to +85 °C	Store as bare product.
Operating temperature	T _{use}	-30 °C to +85 °C	
Frequency tolerance	f _{tol}	$\pm 2.0 \times 10^{-6}$ Max.	After reflow, +25 °C
Frequency/temperature characteristics	f _o -T _c	$\pm 0.5 \times 10^{-6}$ Max.	-30 °C to +85 °C
Frequency/load coefficient	f _o -Load	$\pm 0.1 \times 10^{-6}$ Max.	10 k Ω // 10 pF \pm 10 %
Frequency/voltage coefficient	f _o -V _{cc}	$\pm 0.1 \times 10^{-6}$ Max.	1.8 V \pm 0.1 V, 2.8 V \pm 0.1 V, 3.0 V \pm 0.1 V
Frequency aging	f _{age}	$\pm 1.0 \times 10^{-6}$ Max.	+25 °C, First year
Current consumption	I _{cc}	1.5 mA Max.	V _{cc} =3.0 V, 10 k Ω // 10 pF
Symmetry	SYM	40 % to 60 %	GND level (DC cut)
Output voltage	V _{pp}	0.8 V Min.	peak to peak
Output load condition	Load _R	10 k Ω	DC cut capacitor = 0.01 μ F
	Load _C	10 pF	

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

External dimensions

(Unit:mm)

Pin map

Pin	Connection
1	N.C.
2	GND
3	OUT
4	V _{cc}

Footprint (Recommended)

(Unit:mm)

To maintain stable operation, provide a 0.01 μ F to 0.1 μ F by-pass capacitor at a location as near as possible to the power source terminal of the crystal product (between V_{cc} - GND).
The above connection is one example.

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.

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 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.

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

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

	► Pb free.
	► Complies with EU RoHS directive. *About the products without the Pb-free mark. Contains Pb in products exempted by EU RoHS directive. (Contains Pb in sealing glass, high melting temperature type solder or other.)
	► The products have been designed for high reliability applications such as Automotive.

Notice

- This material is subject to change without notice.
- Any part of this material may not be reproduced or duplicated in any form or any means without the written permission of Seiko Epson.
- The information about applied circuitry, software, usage, etc. written in this material is intended for reference only. Seiko Epson does not assume any liability for the occurrence of infringing on any patent or copyright of a third party. This material does not authorize the licensing for any patent or intellectual copyrights.
- When exporting the products or technology described in this material, you should comply with the applicable export control laws and regulations and follow the procedures required by such laws and regulations.
- You are requested not to use the products (and any technical information furnished, if any) for the development and/or manufacture of weapon of mass destruction or for other military purposes. You are also requested that you would not make the products available to any third party who may use the products for such prohibited purposes.
- 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 Seiko Epson 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.
- All brands or product names mentioned herein are trademarks and/or registered trademarks of their respective.