



Oven Controlled Crystal Oscillator (OCXO)

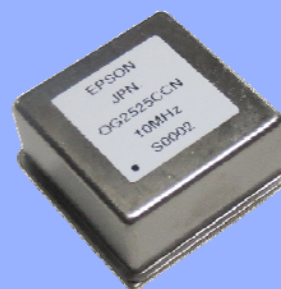
OG2525CCN

- Output frequency : 10.0MHz
- Supply voltage : 5.0 V Typ.
- Frequency / temperature characteristics : $\pm 50 \times 10^{-9}$ Max. / -20 °C to +70 °C
- External dimensions : 25.4 × 25.4 × 12.7 mm
- Features : Very fast warm-up and accurate stability
- SC-Cut Crystal unit

Please contact us for detailed specifications



Product Number (Please contact us)
X1G004661001200



Specifications (characteristics)

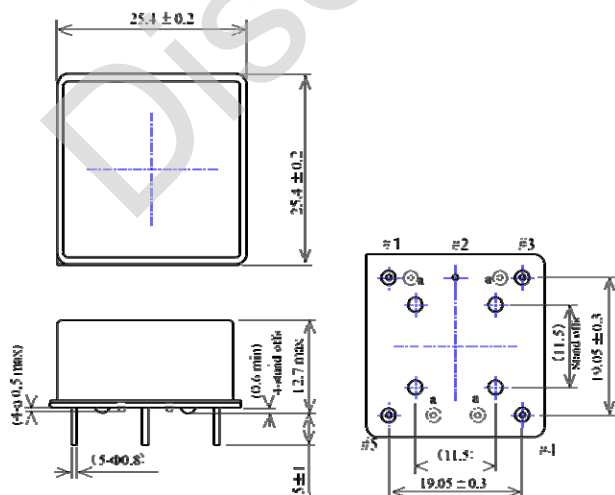
Item	Symbol	Specifications	Condition / Remarks
Output frequency range	fo	10.000 MHz	
Supply voltage	Vcc	H : 5V ± 0.25 V	
Storage temperature range	T_stg	-40 °C to +85 °C	
Operating temperature range	T_use	B : -20 °C to +70 °C	
Frequency tolerance *	Initial tolerance	$\pm 200 \times 10^{-9}$ Max.	at +25 °C, Vcc=5.0V
	Frequency/temperature characteristics	D : $\pm 50 \times 10^{-9}$ Max.	-20 °C to +70 °C calm air
	Frequency/voltage coefficient	$\pm 5 \times 10^{-9}$ Max.	Vcc=5 V ± 0.25 V
	Frequency/load coefficient	$\pm 5 \times 10^{-9}$ Max.	15pF $\pm 5\%$
	Frequency aging	$\pm 3 \times 10^{-9}$ / day Max. C : $\pm 100 \times 10^{-9}$ / year Max.	Temp.; at +25 °C calm air Vcont & Vcc = const. ; f ref; 7 days after power on
	Warm-up	$\pm 50 \times 10^{-9}$ / 5 min Max.	at +25 °C
Frequency tuning		$\pm 0.2 \times 10^{-6}$ to $\pm 0.8 \times 10^{-6}$	Vcont 0.5 to 4.5V positive slope
Current consumption	Warm-up	650 mA Max.	Vcc=5 V
	Steady state	300 mA Max.	Vcc=5 V at +25 °C
Symmetry	SYM	45% to 55%	at 2V
Output voltage	V _{OH} /V _{OL}	V _{OH} = 2.4V Min. / V _{OL} = 0.4V Max.	
Output load condition	Load C	15 pF typ	Max 20pF R-load Min.1k Ω
Phase noise (10MHz)	1Hz	-80 dBc/Hz typ.	
	10Hz	-100 dBc/Hz typ.	
	100Hz	-130 dBc/Hz typ.	
	1kHz	-140 dBc/Hz typ.	
	10kHz	-145 dBc/Hz typ.	

Product name OG2525 CCN 10.000000MHz H C B D J
(Standard form) ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Model ② Output (C: CMOS) ③ Frequency ④ Supply voltage (H: 5V) ⑤ Aging (C: $\pm 100 \times 10^{-9}$ / year)
⑥ Operating temperature (B: -20 °C to +70 °C) ⑦ Frequency / temperature characteristics (D: $\pm 50 \times 10^{-9}$ Max.)
⑧ Option (D: Electric Frequency Control) ⑨ Internal identification code

External dimensions

(Unit: mm)



Pin map

Pin	Connection
#1	Output
#2	GND/Case
#3	Vcont
#4	N.C
#5	Vcc

There should be no patterns under 4a pins (EPSON use), on customer's PCB.

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

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