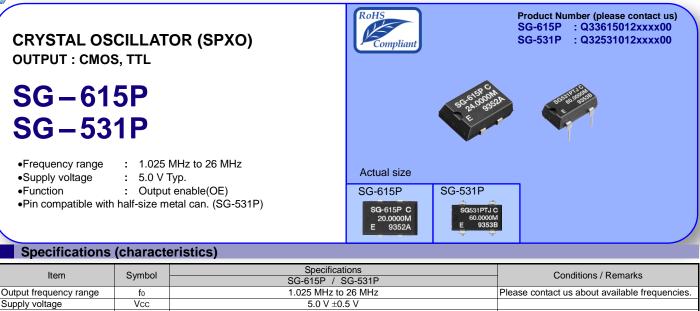
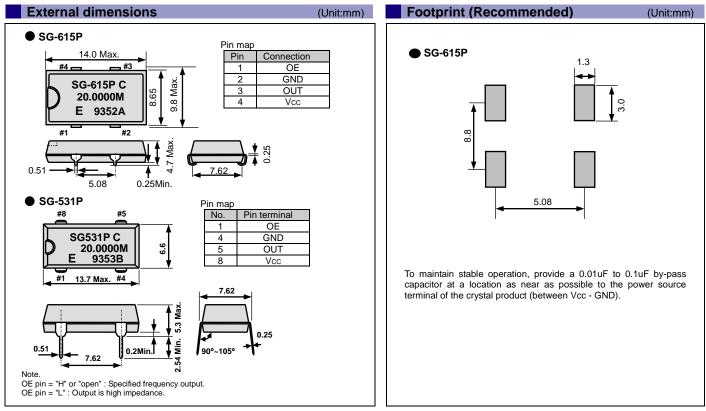
SEIKO EPSON CORPORATION



Supply voltage	Vcc	5.0 V ±0.5 V	
Storage temperature	T_stg	-55 °C to +125 °C	Storage as single product.
Operating temperature	T_use	-20 °C to +70 °C	
Frequency tolerance	f_tol	B: $\pm 50 \times 10^{-6}$, C: $\pm 100 \times 10^{-6}$	-20 °C to +70 °C
Current consumption	lcc	23 mA Max.	No load condition
Disable current	I_dis	12 mA Max.	OE=GND
Symmetry	SYM	40 % to 60 %	CMOS load:50 % Vcc level
		40 % to 60 %	TTL load: 1.4 V level
Output voltage	Vон	Vcc-0.4 V Min.	Іон=-400 μА
	Vol	0.4 V Max.	IoL=16 mA(P)/ 8 mA(PTJ)
Output load condition (TTL)	L_TTL	10 TTL Max.	$L_CMOS \le 15 \text{ pF}$
Output load condition (CMOS)	L_CMOS	50 pF Max.	
Input voltage	VIH	2.0 V Min.	IIH= 1 μA Max. (OE=Vcc)
	VIL	0.8 V Max.	IIL= -100 μA Min. (OE=GND),
			PTJ:IιL= -500 μA Min.(OE=GND)
Rise time / Fall time	tr / t r	8 ns Max.	CMOS load:20 % Vcc to 80 % Vcc level
		8 ns Max.	TTL load:0.4 V to 2.4 V level
Start-up time	t_str	4 ms Max.	Time at minimum supply voltage to be 0 s
Frequency aging	f_aging	$\pm 5 \times 10^{-6}$ / year Max.	+25 °C, Vcc=5.0 V, First year

Product Name (Standard form) <u>SG-615P</u> <u>20.000000MHz</u> <u>C</u> ① ② ③ ④

()Model @Function (P: Output enable) ()Frequency tolerance(B: $\pm 50 \times 10^{-6}$ / -20 ~ +70°C / C: $\pm 100 \times 10^{-6}$ / -20 ~ +70°C)



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.

Pb Free	► Pb free.
RoHS	 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.)
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).

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 data, circuitry, software, usage, etc. written in this material is intended for reference only. Seiko Epson does not assume any liability for the occurrence of customer damage or 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, vegeels, etc.) / Mediael instruments to sustain if a (Submarine transmitter, Deures traines, and related (Eircs work equipment)
 - 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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard Clock Oscillators category:

Click to view products by Epson manufacturer:

Other Similar products are found below :

EP1400SJTSC-125.000M 601137 601252 CSX750FBC-24.000M-UT CSX750FBC-33.333M-UT CSX750FCC-3.6864M-UT F335-12 F335-25 DSC506-03FM2 ASA-20.000MHZ-L-T ASA-25.000MHZ-L-T ASA-27.000MHZ-L-T ASV-20.000MHZ-LR-T ECS-2018-160-BN-TR EL13C7-H2F-125.00M MXO45HS-2C-66.6666MHZ SiT1602BI-22-33E-50.000000E SIT8003AC-11-33S-2.04800X SiT8256AC-23-33E-156.250000X SIT8918AA-11-33S-50.000000G SM4420TEV-40.0M-T1K F335-24 F335-40 F335-50 F535L-10 F535L-12 F535L-16 F535L-27 F535L-48 PE7744DW-100.0M CSX750FBC-20.000M-UT CSX-750FBC33333000T CSX750FBC-4.000M-UT CSX750FBC-7.3728M-UT CSX750FBC-8.000M-UT CSX-750FCC14745600T CSX750FCC-16.000M-UT CSX-750FCC40000000T CSX750FCC-4.000M-UT ASA-22.000MHZ-L-T ASA2-26.000MHZ-L-T ASA-40.000MHZ-L-T ASA-48.000MHZ-L-T ASA-60.000MHZ-L-T ASF1-3.686MHZ-N-K-S XO37CTECNA10M XO57CRECNA16M XO57CTECNA3M6864 XO57CTECNA4M9152 DSC400-0333Q0032KE1-EVB