SEIKO EPSON CORPORATION

CRYSTAL OSCILLATOR (SPXO) OUTPUT : CMOS HIGH-STABILITY

HG-2150CA series

:

:

- Frequency range
- : 1 MHz to 60 MHz
- Supply voltage •Frequency tolerance

•External dimensions

Function

- 3.3 V Typ. / 5.0 V Typ. ±15×10⁻⁶ / -20 °C to +70 °C
- Output enable (OE) :

1

7.0 × 5.0 × 1.4 mm :



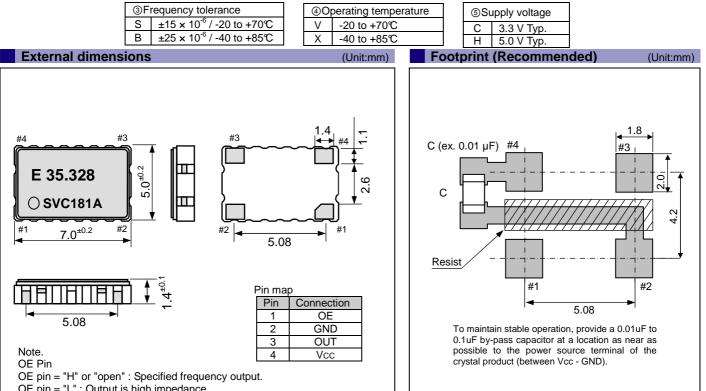
Specifications (characteristics)

Item	Ormahal	Specifications		
	Symbol	SVH / BXH	SVC / BXC	Conditions / Remarks
Output frequency range	fo	1.000 MHz to 60.000 MHz		Please contact us about available frequencies.
Supply voltage	Vcc	H:5.0 V ±0.5 V	C:3.3 V ±0.3 V	
Storage temperature	T_stg	-40 °C to +125 °C		Storage as single product.
Operating temperature	T_use	V:-20 °C to +70 °C X:-40 °C to +85 °C		
Frequency tolerance	f. tol	S: ±15 × 10 ⁻⁶ *1		-20 °C to +70 °C
	f_tol	B: ±25 × 10 ⁻⁶ *1		-40 °C to +85 °C
Current consumption	lcc	30 mA Max.	25 mA Max.	No load condition, OE = Vcc
Disable current	I_dis	15 mA Max.	12 mA Max.	OE=GND
Symmetry	SYM	45 % to 55 %		50 % Vcc level
Output voltage	Vон	Vcc-0.4 V Min.		Iон=-4 mA
	Vol	0.4 V Max.		IoL= 4 mA
Output load condition	L_CMOS	15 pF Max.		CMOS load
Input voltage	Vih	70 % Vcc Min.		OE terminal
	VIL	30 % Vcc Max.		
Rise time / Fall time	tr / tr	4 ns Max.		20 % Vcc to 80 % Vcc level
Start-up time	t_str	10 ms Max.		Time at minimum supply voltage to be 0 s.
Frequency aging	f_aging	$\pm 10 \times 10^{-6}$ Max. *2		+25 °C, 10 years

*1 Frequency tolerance includes variation in reflow soldering drift, operating temperature range, supply voltage range and load change. *2 50 MHz < fo \le 60 MHz: \pm 15 \times 10⁻⁶ Max.

Product Name (Standard form) HG-2150CA 35.328000MHz S V H 2 345

①Model ②Frequency ③Frequency tolerance ④Operating temperature Supply voltage



OE pin = "L" : Output is high impedance

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).

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