

CRYSTAL OSCILLATOR HIGH-STABILITY

HG - 2150CA series

- Frequency range : 1 MHz to 80 MHz
- Supply voltage : 3.3 V or 5.0 V
- Frequency tolerance : $\pm 15 \times 10^{-6}$ / -20 °C to +70 °C
- Function : Output enable(OE)
- Thickness : 1.5 mm Max.



Actual size



Specifications (characteristics)

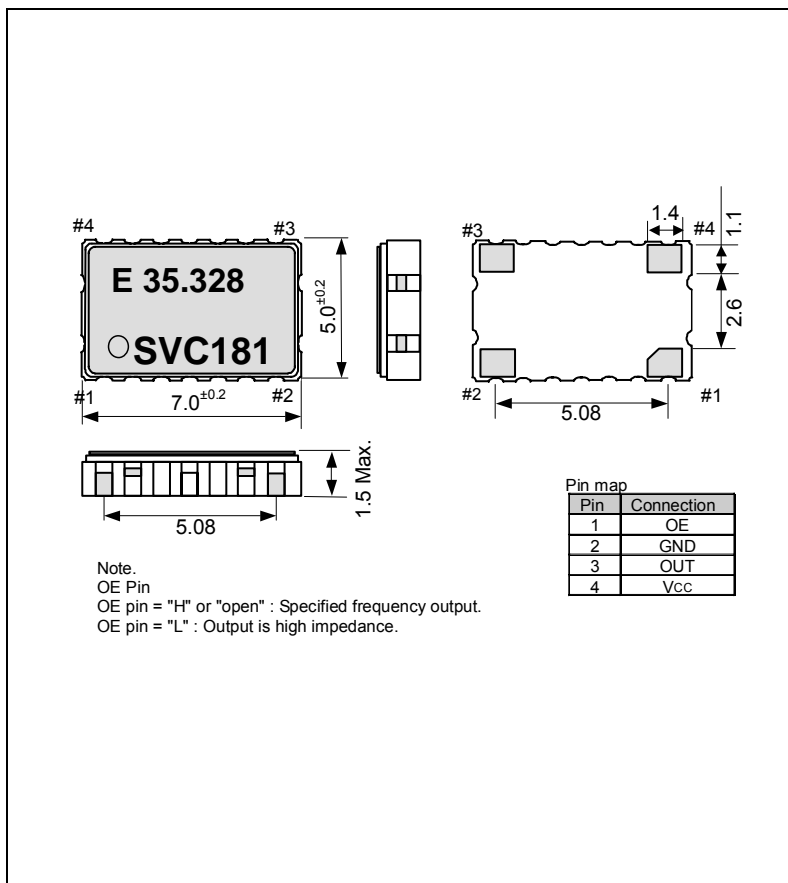
Item	Symbol	Specifications		Remarks
		SVH / BXH	SVC / BXC	
Output frequency range	f_0	1.000 MHz to 80.000 MHz		60 MHz < f_0 ≤ 80 MHz Please contact us for inquiries
Supply voltage	V _{cc}	H:5.0 V ±0.5 V	C:3.3 V ±0.3 V	
Temperature range	Storage temperature	-40 °C to +125 °C		Store as bare product after unpacking
	Operating temperature	V:-20 °C to +70 °C X:-40 °C to +85 °C		
Frequency tolerance	F _{tol(osc)}	S: $\pm 15 \times 10^{-6}$ *1		-20 °C to +70 °C
		B: $\pm 25 \times 10^{-6}$ *1		-40 °C to +85 °C
Current consumption	I _{cc}	30 mA Max.	25 mA Max.	No load condition, OE = V _{cc}
Output disable current	I _{dis}	15 mA Max.	12 mA Max.	OE=GND
Symmetry	SYM	45 % to 55 %		50 % V _{cc} level
High output voltage	V _{OH}	V _{cc} -0.4 V Min.		I _{OH} =-4 mA
Low output voltage	V _{OL}	0.4 V Max.		I _{OL} = 4 mA
Output load condition	L _{CMOS}	15 pF Max.		CMOS load
Output enable input voltage	V _{IH}	70 % V _{cc} Min.		OE terminal
Output disable input voltage	V _{IL}	30 % V _{cc} Max.		OE terminal
Output rise and fall time	t _r / t _f	4 ns Max.		20 % V _{cc} to 80 % V _{cc} level
Oscillation start up time	t _{osc}	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 < f_0 ≤ 80 MHz: $\pm 15 \times 10^{-6}$ Max.

External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)

