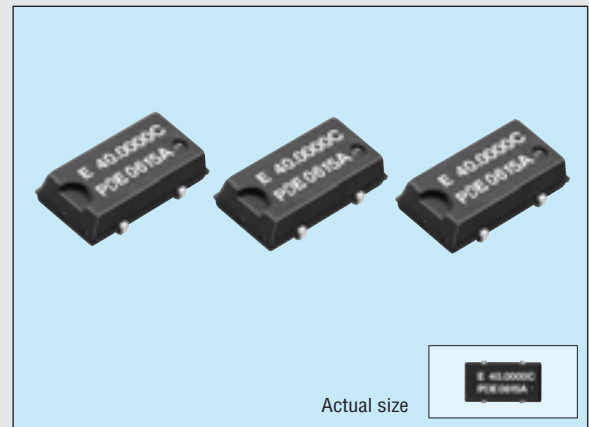


SMALL SOJ HIGH-FREQUENCY CRYSTAL OSCILLATOR

SG-636PDE

- Reflowable and high density mounting type SMD package.
- Operable 2.5V and Out put frequencies from 2.21675 MHz to 41.000 MHz.
- Output enable(OE) function allow more low current consumption.



Specifications (characteristics)

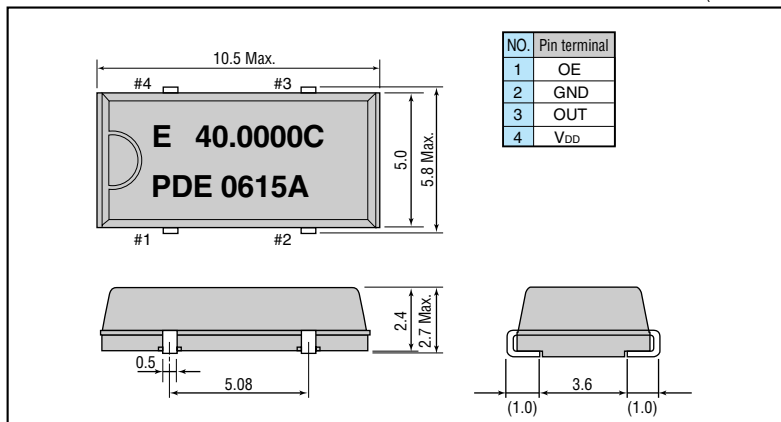
Item	Symbol	Specifications	Remarks
Output frequency range	f_0	2.21675 MHz to 41.0000 MHz	Please contact us for inquiries about the available frequency.
Power source	Max. supply voltage	V_{DD-GND}	-0.5 V to +7.0 V
	Operating voltage	V_{DD}	2.5 V \pm 0.25 V
Temperature range	Storage temperature	T_{STG}	-55 °C to +100 °C
	Operating temperature	T_{OPR}	-20 °C to +70 °C
Frequency stability	$\Delta f/f_0$	C: $\pm 100 \times 10^{-6}$	
Current consumption	I_{OP}	5 mA Max.	No load condition
Output disable current	I_{OE}	3 mA Max.	OE=GND
Duty	C-MOS level	t_w/t	45 % to 55 %
Output voltage		V_{OH}	$V_{DD} - 0.4$ V Min.
		(I_{OH})	-4 mA
		V_{OL}	0.4 V Max.
		(I_{OL})	4 mA
Output load condition (fan out)	C-MOS	C_L	15 pF Max.
Output enable/disable input voltage		V_{IH}	0.8 V_{DD} Min.
		V_{IL}	0.2 V_{DD} Max.
Output rise time	C-MOS level	t_{TLH}	5 ns Max.
Output fall time	C-MOS level	t_{THL}	5 ns Max.
Oscillation start up time		t_{OSC}	4 ms Max.
Aging		f_a	$\pm 5 \times 10^{-6}$ /year Max.
Shock resistance	S.R.		$\pm 20 \times 10^{-6}$ Max.
			Three drops on a hard board from 750 mm or excitation test with 29400 m/s ² x 0.3 ms x 1/2 sine wave in 3 directions

Note: • Unless otherwise stated, characteristics (specifications) shown in the above table are based on the rated operating temperature and voltage condition.

- External by-pass capacitor is required.
- Metal may be exposed on the top of this product. This won't affect any quality, reliability or electrical spec.

External dimensions

(Unit: mm)



Recommended soldering pattern

(Unit: mm)

