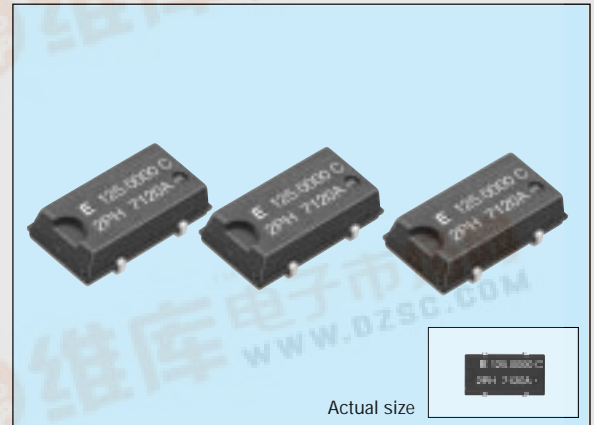


PROGRAMMABLE HIGH-FREQUENCY CRYSTAL OSCILLATOR SG-8002JC series

- Wide frequency range from 1MHz to 125MHz.
- Quick delivery of samples and short lead time by mass production.
- Use of C-MOS IC assures low current consumption.
- Excellent shock resistance and environmental capability.
- Output enable function (OE) and stand-by function (ST) can be used for low current consumption applications.
- Shape and pin compatible with SG-636.



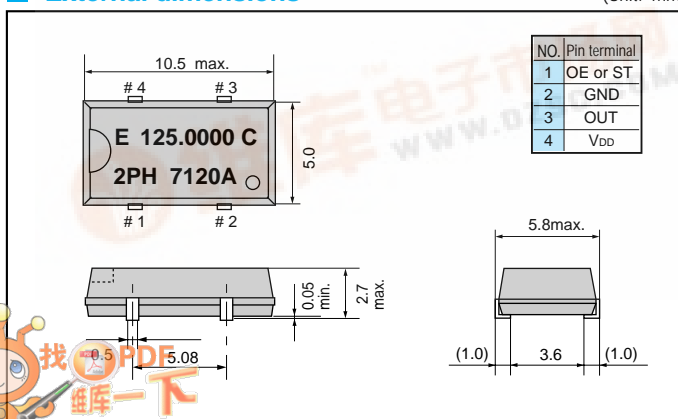
Specifications (characteristics)

Item	Symbol	Specifications		Remarks
		PT/ST	PH/SH	
Output frequency range	f_0	1.0000 MHz to 125.0000 MHz		1.0000 MHz to 90.0000 MHz
Power source voltage	Max. supply voltage	V_{DD-GND}		-0.5V to +7.0V
	Operating voltage	V_{DD}		5.0V±0.5V
Temperature range	Storage temperature	T_{STG}		-55°C to +100°C
	Operating temperature	T_{OPR}		-20°C to +70°C
Soldering condition	T_{SOL}	Twice at under 260°C within 10 sec. or under 230°C within 3 min.		
Frequency stability	$\Delta f/f_0$	B: ±50ppm C: ±100ppm		-20°C to +70°C
Current consumption	I_{OP}	45mA max.		25mA max.
Output disable current	I_{OE}	30mA max.		15mA max.
Standby current	I_{ST}	50µA max.		
Duty	t_w/t	—		40% to 60%
		40% to 60%		—
High output voltage	V_{OH}	$V_{DD} - 0.4V$ min.		$I_{OH} = -16mA(PT/ST, PH/SH), -8mA(PC/SC)$
Low output voltage	V_{OL}	0.4V max.		$I_{OL} = 16mA(PT/ST, PH/SH), 8mA(PC/SC)$
Output load condition (fan out)	TTL	N		5TTL max.
	C-MOS	C_L		15pF max.
Output enable/disable input voltage	V_{IH}	2.0V min.		$0.7 \times V_{DD}$ min.
	V_{IL}	0.8V max.		$0.2 \times V_{DD}$ max.
Output rise time	C-MOS level	—		4ns max.
	TTL level	4ns max.		—
Output fall time	C-MOS level	—		4ns max.
	TTL level	4ns max.		—
Oscillation start up time	t_{OSC}	10ms max.		Time at operating voltage to be 0 sec.
Aging	f_a	±5ppm/year max.		$T_a = 25^\circ C, V_{DD} = 5.0V/3.3V(PC/SC)$
Shock resistance	S.R.	±20ppm max.		Three drops on a hard board from 75 cm or excitation test with 3000G x 0.3ms x 1/2sine wave in 3 directions

Note: • Please contact us for inquiries about usagle frequencies, duty and output load conditions.

External dimensions

(Unit: mm)



Recommended soldering pattern

(Unit: mm)

