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# CRYSTAL OSCILLATOR (SPXO)

## OUTPUT : LV-PECL

# SG-770/SG-771 series

- Frequency range : 50 MHz to 230 MHz
- Supply voltage : 2.5 V Typ. / 3.3 V Typ.
- Output : Differential LV-PECL
- External dimensions: 7.0 × 5.0 × 1.6 mm
- Features : Fundamental mode oscillator with HFF-XTAL
- Function : Standby ( $\overline{ST}$ ) ...SG-770 series  
Output enable (OE) ...SG-771 series



Product Number (please contact us)

SG-770: X1G0023x1xxx00

SG-771: X1G00282xxxx00



Actual size



## Specifications (characteristics)

Item	Symbol	Specifications			Conditions / Remarks
		SG-770SDD	SG-770SCD	SG-771PCD	
Output frequency range	f <sub>o</sub>	50.000 MHz to 230.000 MHz		80.000 MHz to 175.000 MHz	Please contact us about available frequencies.
Supply voltage	V <sub>cc</sub>	2.5 V ±0.125 V	3.3 V ±0.165 V	3.3 V ±0.165 V	
Storage temperature	T <sub>stg</sub>	-55 °C to +125 °C			Storage as single product.
Operating temperature	T <sub>use</sub>	As per below table			
Frequency tolerance	f <sub>tol</sub>	±50 × 10 <sup>-6</sup> Max.		As per below table	
Current consumption	I <sub>cc</sub>	90 mA Max.		70 mA Max.	50Ω
Symmetry	SYM	45 % to 55 %		40 % to 60 %	at outputs crossing point
Output voltage	V <sub>OH</sub>	V <sub>cc</sub> -1.1 V Min.			
	V <sub>OL</sub>	V <sub>cc</sub> -1.5 V Max.			
Output load condition (ECL)	L <sub>ECL</sub>	LV-PECL			
Input voltage	V <sub>IH</sub>	70 % V <sub>cc</sub> Min.			ST terminal or OE terminal
	V <sub>IL</sub>	30 % V <sub>cc</sub> Max.			
Rise time / Fall time	tr/ tf	1 ns Max.			20 % to 80 % (V <sub>OH</sub> -V <sub>OL</sub> )
Start-up time	t <sub>str</sub>	10 ms Max. *1			Time at minimum supply voltage to be 0 s
Frequency aging	f <sub>aging</sub>	±5 × 10 <sup>-6</sup> / year Max.		This is included in frequency tolerance specification.	+25 °C, V <sub>cc</sub> =2.5 V or 3.3 V, First year.

\*1 Rise time (0 V to 2.13 V or 3.15 V) of  $V_{CC} > 150 \mu s$ Product Name  
(Standard form)

SG-770 S D D - 156.250000 - Q

① ②③ ④ ⑤

①Model ②Function (P: Output enable, S:Standby) ③Supply voltage

④Frequency(MHz) ⑤Frequency tolerance/ Operating temperature

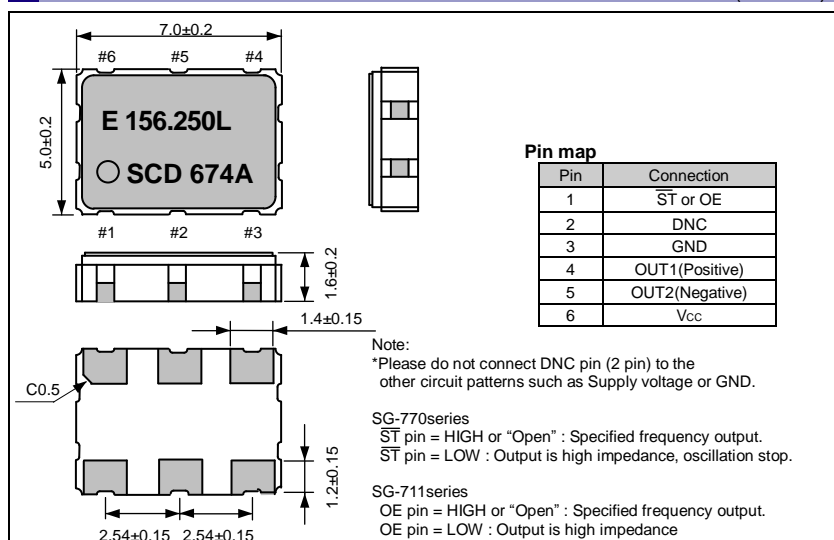
③Supply voltage	
D	2.5 V Typ.
C	3.3 V Typ.

⑤SG-770 series	Frequency tolerance	Operating temperature
L	$\pm 50 \times 10^{-6}$	-40 °C to +85 °C
B		-20 °C to +70 °C
P		-10 °C to +70 °C
Q		0 °C to +70 °C

⑤SG-771series	Frequency tolerance	Operating temperature	Frequency aging
A	$\pm 30 \times 10^{-6}$	-40 °C to +85 °C	10 years
B	$\pm 35 \times 10^{-6}$	-40 °C to +85 °C	20 years
C	$\pm 20 \times 10^{-6}$	-10 °C to +70 °C	10 years
D	$\pm 25 \times 10^{-6}$	-10 °C to +70 °C	20 years

## External dimensions

(Unit:mm)



## Footprint (Recommended)

(Unit:mm)

