

SEIKO EPSON CORPORATION



opechications (characteristics)									
Item	Symbol		Specifications	Conditions / Remarks					
		SG-770SDD	SG-770SCD	SG-771PCD	Conditions / Remarks				
Output frequency range	fo	50.000 MHz to 230.000 MHz		80.000 MHz to 175.000 MHz	Please contact us about available frequencies.				
Supply voltage	Vcc	2.5 V ±0.125 V	3.3 V ±0.165 V	3.3 V ±0.165 V					
Storage temperature	T_stg	-55 °C to +125 °C			Storage as single product.				
Operating temperature	T_use	As per below table							
Frequency tolerance	f_tol	±50 × 10 ⁻⁶ Max.		As per below table					
Current consumption	Icc	90 mA Max.		70 mA Max.	50Ω				
Symmetry	SYM	45 % to 55 %		40 % to 60 %	at outputs crossing point				
Output voltage	Vон	Vcc-1.1 V Min.							
	Vol		Vcc-1.5 V Max.						
Output load condition (ECL)	L_ECL		LV-PECL						
Input voltage	Vін		70 % Vcc Min.	ST terminal or OE terminal					
	VIL		30 % Vcc Max.						
Rise time / Fall time	tr/ tf	1 ns Max.			20 % to 80 % (Vон-VoL)				
Start-up time	t_str	10 ms Max. *1			Time at minimum supply voltage to be 0 s				
Frequency aging	f_aging	$\pm5\times10^{-6}$ / year Max.		This is included in frequency tolerance specification.	+25 °C, Vcc=2.5 V or 3.3 V, First year.				

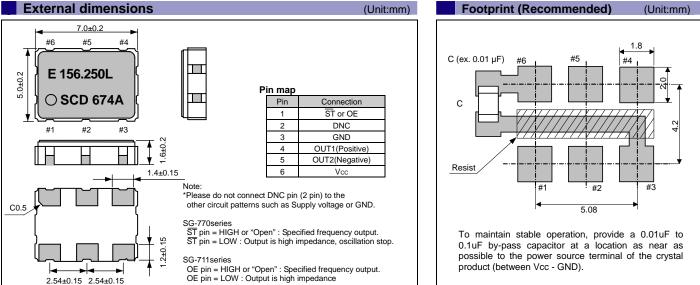
*1 Rise time (0 V to 2.13 V or 3.15 V) of Vcc > 150 μs

Product Name (Standard form) <u>SG-770 S D D</u> - <u>156.250000</u> - <u>Q</u> ① ② ③ ④ ⑤

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

④Frequency(MHz) ⑤Frequency tolerance/ Operating temperature

③Supply voltage	⑤SG-770 series	Frequency tolerance	Operating temperature	⑤SG-771series	Frequency tolerance	Operating temperature	Frequency aging
D 2.5 V Typ.	L		-40 °C to +85 °C	A	$\pm 30 imes 10^{-6}$	-40 °C to +85 °C	10 years
C 3.3 V Typ.	В	$+50 \times 10^{\circ}$	-20 °C to +70 °C	В	$\pm 35 \times 10^{-6}$	-40 °C to +85 °C	20 years
	Р		−10 °C to +70 °C	С	$\pm 20 \times 10^{-6}$	-10 °C to +70 °C	10 years
Q		0 °C to +70 °C	D	$\pm 25 imes 10^{-6}$	-10 °C to +70 °C	20 years	



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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