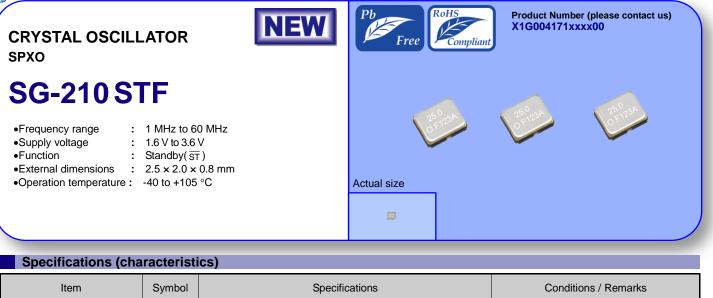
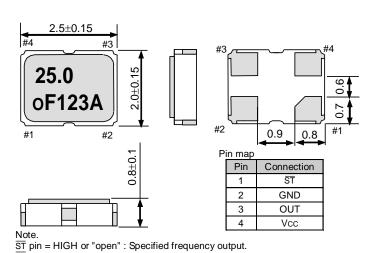
Crystal oscillator

SEIKO EPSON CORPORATION

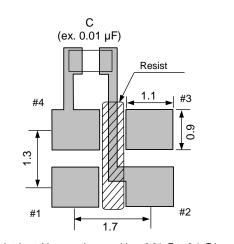


Item	Symbol	Specifications			Conditions / Remarks
Output frequency range	fo	1MHz to 60MHz			Please contact us about available frequencies.
Supply voltage	Vcc	1.6V to 3.6V			
		1.8 V Typ.	2.5 V Typ.	3.3 V Typ.	
		1.6 V to 2.2 V	2.2 V to 3.0 V	2.7 V to 3.6 V	
Storage temperature	T_stg	-40 °C to +125 °C			Storage as single product.
Operating temperature	T_use	-40 °C to +85 °C / -40 °C to +105 °C			
Frequency tolerance	f_tol	S: ±25 × 10 ⁻⁶			-20 °C to +70 °C
		L:±50 × 10 ⁻⁶			-40 °C to +85 °C
		Y:±50 × 10 ⁻⁶ , W:±100 × 10 ⁻⁶			-40 °C to +105 °C
Current consumption	lcc	1.5 mA Max.	1.6 mA Max.	1.8 mA Max.	No load condition 1MHz <fo≤20mhz< td=""></fo≤20mhz<>
		1.8 mA Max.	2.0 mA Max.	2.2 mA Max.	No load condition 20MHz <fo≤40mhz< td=""></fo≤40mhz<>
		2.1 mA Max.	2.4 mA Max.	2.6 mA Max.	No load condition 40MHz <fo≤60mhz< td=""></fo≤60mhz<>
Stand-by current	I_std	2.1 µA Max.	2.5 µA Max.	2.7 µA Max.	ST =GND
Symmetry	SYM	45 % to 55 %			50 % Vcc level L CMOS ≤ 15 pF
Output voltage	Voн	90% Vcc Min.			
	Vol	10% Vcc Max			
Output load condition (CMOS)	L_CMOS	15 pF Max.			
Input voltage	Vih	80 % Vcc Min.			- ST terminal
	VIL	20 % Vcc Max.			
Rise time and Fall time	tr/ tr	4 ns Max. 3 ns Max.		20 % Vcc to 80 % Vcc level,L_CMOS=15 pF	
Start-up time	t_str	3 ms Max.			t=0 at 90 % Vcc+85°C,(+105 °C.)
Frequency aging	f_aging	$\pm 3 \times 10^{-6}$ / year Max.			+25 °C, First year,
		•		Vcc=1.8 V, 2.5 V, 3.3 V	
SSB Phase noise	C/N	-145 dBc/Hz Typ.			@1kHz ,fo=48MHz
		-158 dBc/Hz Typ.			@100kHz ,fo=48MHz
		-161 dBc/Hz Typ.			@Floor Lv.

External dimensions



 $\overline{\text{ST}}$ pin = LOW : Output is high impedance, oscillation stops.



To maintain stable operation, provide a 0.01uF to 0.1uF by-pass capacitor at a location as near as possible to the power source terminal of the crystal product (between Vcc - GND).

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