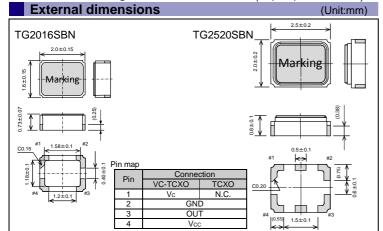
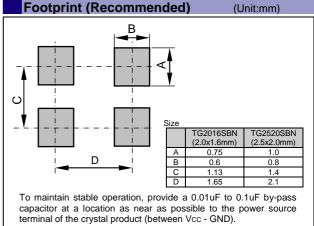
Crystal oscillato	or					SEI	KO EPSO	N CORP	ORATIO	
VC-TCXO/TCXO HIGH STABILITY			Pb	Free Ro	HS Compliant	TG20 1	ct Number I6SBN : X1 20SBN : X1	G004691	xxxxx	
TG2016SBN		G2520SBN					-16			
 Output frequency : 13 MHz to 55MHz Supply voltage : 1.8 V Typ./ 2.8 V Typ./ 3.0 V Typ./ 3.3 V Typ. Frequency / temperature characteristics ±0.5 × 10⁻⁶ Max. (-40 °C to +85 °C) ±2.0 × 10⁻⁶ Max. (-40 °C to +85 °C) External dimensions: 2.0 × 1.6 × 0.73 mm / 2.5 × 2.0 × 0.8 mm Applications : GPS, RF 				TG2016SBN (2.0 × 1.6 × 0.73 mm) TG2520SBN (2.5 × 2.0 × 0.8 mm) Actual size						
Wir (C	munication devices DMA, LTE, WiMAX, other) Low noise	TG2016SBN TG2520SB			BN					
Specifications (chara										
Item	Symbol	VC-TCXO		тсхо			Condition	s / Remar	s	
tout frequency range for 16 MHz, 16.368 MHz, 16.369 M				55MHz MHz, 16.384 MHz, 16.8 MHz,			frequency			
		32 MHz, 37.4 MHz, 38.4 M								
upply voltage	Vcc		6 / 3.0 V ±5 % / 3.3 V ±5 %			Supply voltage range :1.7 V to 3.63 V				
orage temperature	T_stg		to +90 °C Storage as single product.							
perating temperature	T_use		G: -40 °C to +85 °C ±1.5 × 10 [™] Max. After reflow, +25 °C							
requency tolerance requency/temperature haracteristics	f_tol fo-Tc	C: ±0.5 × 10 ⁻⁶ Max. / G: -40 °C to +85 °C F: ±2.0 × 10 ⁻⁶ Max. / G: -40 °C to +85 °C				Standard stability version				
requency/load coefficient	fo-Load	$\pm 0.1 \times 10^{-6}$ Max.				10 kΩ // 10 pF ±10 %				
requency/voltage coefficient	fo-Vcc f_age	±0.1 × 10 ⁻⁶ Max.			Vcc ± 5 % +25 °C, First year, 13 MHz≤ fo ≤20 MHz,					
requency aging		$\pm 0.5 \times 10^{-6}$ Max. $\pm 1.5 \times 10^{-6}$ Max.			+25 °C ,First year, 13 MHZ≤ 10 ≤20 MHZ 26 MHz≤ fo ≤40 MHz +25 °C ,First year, 20 MHz< fo <26 MHz					
		_						0 MHz< fo	o ≤55 MHz	
Current consumption	lcc	1.2 mA Max.			13 MHz≤ fo <16 MHz					
		1.4 mA Max. 1.5 mA Max.				16 MHz≤ fo ≤27 MHz 27 MHz< fo ≤36 MHz				
		1.8 mA Max.				36 MHz< f0 ≤40 MHz				
		2.0 mA Max.					fo ≤52 MH			
		2.2 mA Max.					52 MHz< f0 ≤55 MHz			
nput resistance	Rin	500 kΩ Min.	-			Vc - GND (DC)				
requency control range	f_cont	$\pm 8.0 \times 10^{-6}$ to $\pm 12.0 \times 10^{-6}$	-			B: $Vc = 0.9 V \pm 0.6 V (Vcc = 1.8 V) \text{ or}$ C: $Vc = 1.4 V \pm 1.0 V (Vcc = 2.8 V) \text{ or}$ D: $Vc = 1.5 V \pm 1.0 V (Vcc = 3.0 V) \text{ or}$ E: $Vc = 1.65 V \pm 1.0 V (Vcc = 3.3 V)$				
requency change polarity	-	Positive polarity		-		L. VO -1.	00 V ±1.0	(100 -0		
symmetry	SYM	45 % t				GND level (DC cut)				
output voltage	Vpp	0.8 V	' Min.				Peak to Peak			
tart-up time	t_str	1.0 ms				T=0 at 90% Vcc				
Output load condition	Load_R Load_C		<u>kΩ</u> pF				DC cut capacitor = 0.01 μ F			
Note : Please contact us for re		s not listed in this specification.	рг Г	@Supply y		®Vc functio	on[Vc] (Symb	ol tablo)		
	•	•		Voltage [V]				TCXO		
			<u>M</u> N	<pre>voltage [v] ④Vcc</pre>			T: 1.8 K: 2.5 P: 2.6 M: 2.8			
(Standard form) ①	② (TG2016, T		89	(Typ.)	to 3.3	to 3.3	to 3.3	to 3.3	to 3.3	
		d sine wave) ③Frequency		⑧Vc (Typ.)	N: Non	B: 0.9	C: 1.4	D: 1.5	E: 1.65	

Operating temperature (G: -40 °C to +85 °C) ⑦OE function (N: Non) ⑧Vc function(Refer to symbol table , A: Vc =any) ⑨Internal identification code ("L", "M", "H" is default)





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.

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Explanation of the mark that are using it for the catalog

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