

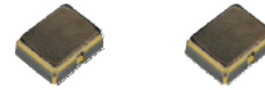
TCXO / TCXO-Standby  
105 °C High temperature range



Product Number  
TG2016SLN : X1G005731xxxx16

TG2016SLN

- Output frequency : 10 MHz to 55.2MHz
- Supply voltage : 1.8 V Typ./ 2.8 V Typ./ 3.0 V Typ./ 3.3 V Typ.
- Frequency / temperature characteristics :  $\pm 0.5 \times 10^{-6}$  Max. (-40 °C to +85 °C) and  $\pm 5.0 \times 10^{-6}$  Max. (+85 °C to +105 °C)
- External dimensions: 2.0 × 1.6 × 0.7 mm max
- Applications : GNSS, Industrial  
Wireless communication devices
- Features : 105 °C High temp, Stand-by function (ST)



TG2016SLN  
(2.0 × 1.6 × 0.7 mm)

Specifications (characteristics)

Item	Symbol	TCXO	TCXO-Standby	Conditions / Remarks
Output frequency range	f <sub>0</sub>	10 MHz to 55.2MHz 26, 38.4 MHz		Standard frequency
Supply voltage	V <sub>CC</sub>	1.8 V ±0.1 V / 2.8 V ±5 % / 3.0 V ±5 % / 3.3 V ±5 %		Supply voltage range : 1.7 V to 3.63 V
Storage temperature	T <sub>stg</sub>	-40 °C to +105 °C		Storage as single product.
Operating temperature	T <sub>use</sub>	G: -40 °C ~ +85 °C / H: -40 °C to +105 °C		
Frequency tolerance	f <sub>tol</sub>	±2.0 × 10 <sup>-6</sup> Max.		After 3times reflow, +25 °C
Frequency/temperature characteristics	f <sub>0</sub> -T <sub>c</sub>	C: ±0.5 × 10 <sup>-6</sup> Max. / -40 °C to +85 °C W: C and ±5.0 × 10 <sup>-6</sup> Max. / +85 °C to +105 °C (Option)		
Frequency/load coefficient	f <sub>0</sub> -Load	±0.1 × 10 <sup>-6</sup> Max.		10 kΩ // 10 pF ±10 %
Frequency/voltage coefficient	f <sub>0</sub> -V <sub>CC</sub>	±0.2 × 10 <sup>-6</sup> Max.		V <sub>CC</sub> ± 5 %
Frequency aging	f <sub>age</sub>	±1.0 × 10 <sup>-6</sup> Max.		+25 °C, First year, 10 MHz ≤ f <sub>0</sub> ≤ 20 MHz, 26 MHz ≤ f <sub>0</sub> ≤ 40 MHz
		±1.5 × 10 <sup>-6</sup> Max.		+25 °C, First year, 20 MHz < f <sub>0</sub> < 26 MHz 40 MHz < f <sub>0</sub> ≤ 55.2 MHz
Current consumption	I <sub>CC</sub>	1.5 mA Max. 1.7 mA Max. 2.0 mA Max. 2.2 mA Max.		f <sub>0</sub> ≤ 26 MHz (-40 to +85 °C) f <sub>0</sub> < 26 MHz (-40 to +105 °C) 10 MHz ≤ f <sub>0</sub> ≤ 38.4 MHz (-40 to +105 °C) 38.4 MHz < f <sub>0</sub> ≤ 55.2 MHz (-40 to +105 °C)
Stand-by current	I <sub>std</sub>	-	3 μA Max.	ST = GND
Input voltage	V <sub>H</sub>	-	80% V <sub>CC</sub> Min.	ST terminal
	V <sub>L</sub>	-	20 % V <sub>CC</sub> Max.	
Symmetry	SYM	45 % to 55 %		GND level (DC cut)
Output voltage	V <sub>PP</sub>	0.8 V Min. / 1.5 V Max.		Peak to Peak
Start-up time	t <sub>str</sub>	2.0 ms Max.		T=0 at 90% V <sub>CC</sub>
Output load condition	Load <sub>R</sub>	10 kΩ		DC cut capacitor = 0.01 μF
	Load <sub>C</sub>	10 pF		

\* Note : Please contact us for requirements not listed in this specification.

Product Name TG2016 SLN 26.000000MHz E W H S N M  
(Standard form) ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

④ Supply voltage[Vcc] , ⑥ Vc function[Vc] (Symbol table)				
Voltage [V]	TCXO			
④ V <sub>CC</sub>	E: 1.8	B: 2.8	A: 3.0	C: 3.3
⑥ V <sub>C</sub>	N: Non			

① Model ② Output (S: Clipped sine wave)

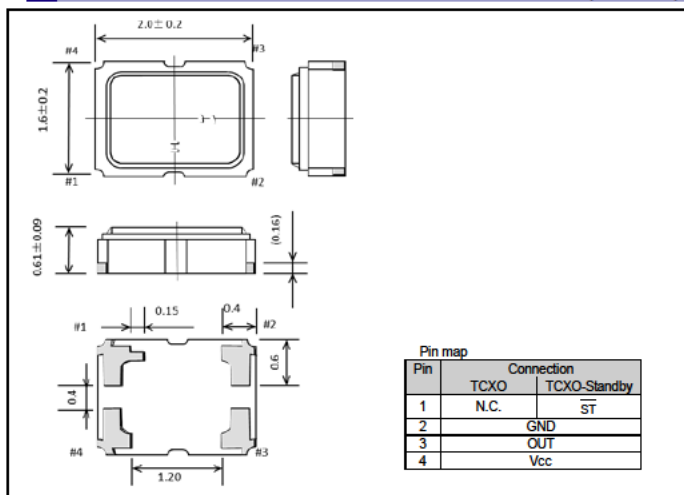
③ Frequency ④ Supply voltage (Refer to symbol table)

⑤ Frequency / temperature characteristics (C: ±0.5 × 10<sup>-6</sup> Max., F: ±2.0 × 10<sup>-6</sup> Max., W: ±0.5 × 10<sup>-6</sup> Max. and ±5.0 × 10<sup>-6</sup> Max.)

⑥ Operating temperature (G: -40 °C ~ +85 °C, H: -40 °C to +105 °C) ⑦ ST function (N: Non, S: Standby)

⑧ V<sub>C</sub> function(N: Non) ⑨ Internal identification code ("M" is default)

External dimensions (Unit:mm)



Footprint (Recommended) (Unit:mm)

