

Temperature Compensated Crystal Oscillators (TCXO) Surface Mount Type TCXO (LSI Type) KT2520 Series for GPS



2.5×2.0mm



RoHS Compliant

Features

- Miniature SMD type (2.5×2.0×0.8mm)
- Freq. temp. characteristics. : $\pm 0.5 \times 10^{-6}$ / -30 to +85°C
- 1.68 to 3.6V drive available
- Reflow compatible
- Temperature sensor output (Option)
- Disable Function (Option)
- Lower Operating Temp. -40°C (Option)

Applications

- GPS Units

How to Order

KT2520F 26000 A C W 18 T xx
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series

② Output Frequency

③ Freq. Temp. Chrst.

A $\pm 0.5 \times 10^{-6}$

④ Lower Operating Temp.

C -30°C

E -20°C

G -10°C

⑤ Upper Operating Temp.

W +85°C

V +80°C

U +75°C

⑥ Supply Voltage

18 1.8V 28 2.8V

⑦ Voltage Control Range

T TCXO

⑧ Option Code

Packaging (Tape & Reel 3000 pcs./ reel)

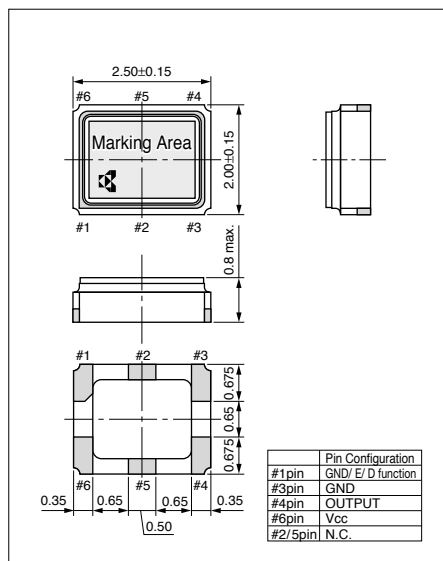
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	f _o	Standard Frequency: 16.368, 16.369, 19.2, 23.104, 26, 27.456, 33.6, 38.4, 52	13	52	MHz
Frequency Tolerance	f _{tol}	vs Temperature	-0.5	+0.5	$\times 10^{-6}$
		vs Load	-0.1	+0.1	
		vs Voltage	-0.2	+0.2	
Frequency Aging	f _{age}	Per Year	-1	+1	$\times 10^{-6}$
Storage Temperature Range	T _{stg}		-40	+85	°C
Operating Temperature Range	T _{use}		-30	+85	°C
Supply Voltage	V _{CC}		1.68	3.6	V
Output Level	V _{pp}	Clipped Sine*, Load: 10k ohm / / 10pF	0.8	—	Vp-p
Current Consumption	I _{CC}		—	2	mA
Harmonics	—		—	-5	dBc

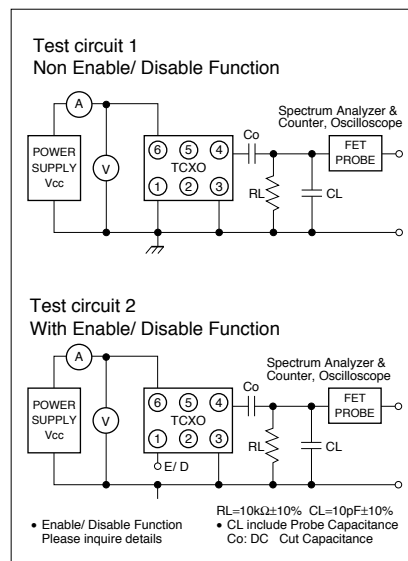
* : A DC-cut capacitor is not embedded in this crystal oscillator. Connect a DC-cut capacitor (≥ 1 nF) to the line-out terminal of the oscillator.

Dimensions

(Unit: mm)



Test Circuit



Recommended Land Pattern

(Unit: mm)

