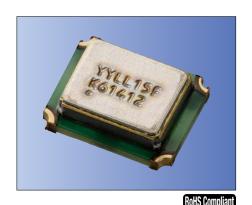
Temperature Compensated Crystal Oscillators (TCXO, VCTCXO) Surface Mount Type TCXO (LSI Type) KT2520 Series



2.5×2.0mm



Features

- Miniature SMD type (2.5×2.0×0.8mm)
- Freq. temp. characteristics. : $\pm 2.0 \times 10^{-6} / -30 \text{ to } +85^{\circ}\text{C}$
- $\pm 0.5 \times 10^{-6} / -30 \text{ to } +85^{\circ}\text{C (for GPS)}$ • 1.68 to 3.63V drive available
- Reflow compatible
- Operating Temp. -40 to +105°C (Option)
- Ultra low supply current 800μA typ. Conditions of 26MHz and 1.0Vp-p
- AEC-Q200 qualified
- AEC-Q100 qualified (Option)

Applications

- Mobile Communications, W-LAN
- Low power radio communications
- GPS Unit

How to Order

KT2520K	<u>26000</u>	<u>A</u>	<u>C</u>	W	<u>18</u>	Ţ	\underline{XX}
1	2	3	4	(5)	6	7	8

- 1 Series
- 2 Output Frequency
- ③ Freq. Temp. Chrst.

Α	±0.5×10 ⁻⁶
В	±1.0×10 ⁻⁶
С	±1.5×10 ⁻⁶
D	±2.0×10 ⁻⁶

).5×10 °	(7
1.0×10 ⁻⁶	
1.5×10 ^{−6}	-
2.0×10 ⁻⁶	*

4 Lower Operating Temp.

С	−30°C	
E	−20°C	
G	−10°C	

(5) Upper Operating Temp

© oppor operating temp.					
W	+85°C				
٧	+80°C				
U	+75°C				

6 Supply Voltage

18	1.8V	28	2.8V
30	3.0V	33	3.3V
	0.01		0.01

Voltage Control Function TCXO VCTCXO Other³

Customer Spec.

(8) Option Code

Packaging (Tape & Reel 12000 pcs./ reel)

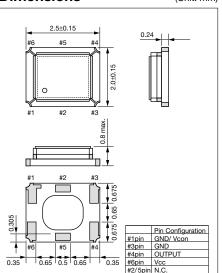
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	fo		10	52	MHz
		vs Temperature	-0.5/ -2	+0.5/ +2	
Frequency Tolerance	f_tol	vs Load	-0.2	+0.2	×10 ⁻⁶
		vs Voltage	-0.2	+0.2	
Frequency Aging	f_age	Per Year	-1	+1	×10 ⁻⁶
Storage Temperature Range	T_stg		-40	+85	°C
Operating Temperature Range	T_use		-30	+85	°C
Voltage Control Range	f_cont	Positive	±8	±15	×10 ⁻⁶
Supply Voltage	Vcc		1.68	3.63	V
Output Level	Vpp	Clipped Sine*, Load: 10k ohm / / 10pF	0.8	_	Vp-p
Current Consumption	Icc		_	2	mA
Harmonics	_		_	-5	dBc

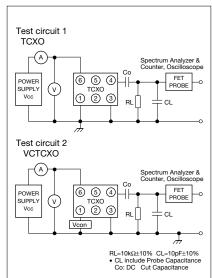
^{*:} A DC-cut capacitor is not embedded in this crystal oscillator. Connect a DC-cut capacitor (≥1nF) to the line-out terminal of the oscillator.

Dimensions



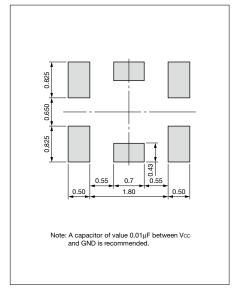


Test Circuit



Recommended Land Pattern





^{*} Please contact us for other specifications.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kyocera:

KT2520Y40000ECV28TBA	KT2520Y16369ACW28TMA	KT2520P52000ECW24TA	KT2520F40000ECV28TAK
KT2520K26000CCW18ZUS	KT2520K26000DCW28QAS	KT2520K26000ZAW18TAS	KT2520K26000ACW18TAS
KT2520K40000DAW18TAS	KT2520K26000AAW18TAS	KT2520F38400DEV30TAK	KT2520F16369ACW28TAK
KT2520F37400ZAW18TBK	KT2520F27456ZAW28TBA	KT2520K26000ZAW23ZMS	KT2520K26000ZAW28QAS
KT2520K16369ACW18TAS	KT2520K52000ECW24TAS	KT2520K16369ACW18NAS	KT2520K38400DEV30TAS
KT2520K19200ACV29RBS	KT2520K40000ECV28TAS	KT2520K37400ZAW18TBS	KT2520K38400ZAW18TES
KT2520K27456ZAW28TCS	KT2520K25000ZAW18TDS		