

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



2.5×2.0mm



RoHS Compliant

Features

- Miniature SMD type (2.5×2.0×0.8mm)
- AFC function available
- Freq. temp. characteristics.
: $\pm 2.0 \times 10^{-6}$ / -30 to +85°C
- 1.68 to 3.6V drive available
- Reflow compatible

Applications

- 3G (CDMA, W-CDMA, TD-SCDMA), GPRS, GSM, W-LAN, WiMAX

How to Order

KT2520F 26000 D C W 28 T xx
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series

② Output Frequency

③ Freq. Temp. Chrst.

B	$\pm 1.0 \times 10^{-6}$
C	$\pm 1.5 \times 10^{-6}$
D	$\pm 2.0 \times 10^{-6}$

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

28	2.8V	30	3.0V
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⑦ Voltage Control Range

T	TCXO
Other*	VCTCXO

* Customer Spec.

⑧ Option Code

Packaging (Tape & Reel 3000 pcs./ reel)

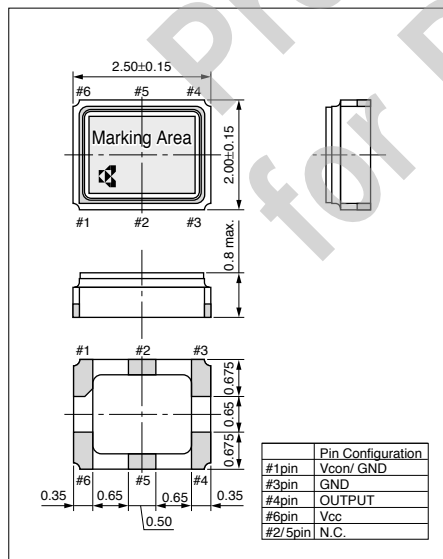
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	fo	Standard Frequency: 13, 19.2, 26, 38.4, 52	13	52	MHz
Frequency Tolerance	f _{tol}	vs Temperature	-2	+2	$\times 10^{-6}$
		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
Voltage Control Range	f _{cont}	Positive	±8	±15	$\times 10^{-6}$
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

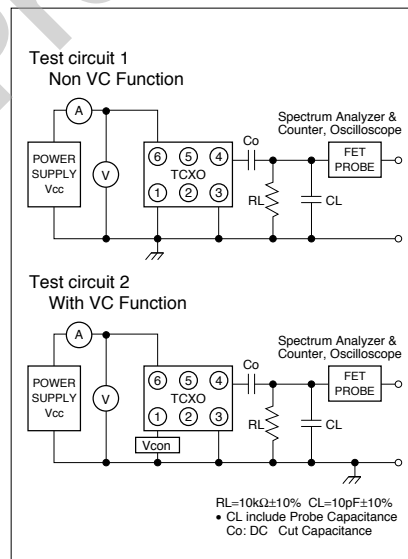
* : A DC-cut capacitor is not embedded in this crystal oscillator. Connect a DC-cut capacitor (≥ 1 nF) to the line-out terminal of the oscillator.

Dimensions

(Unit: mm)

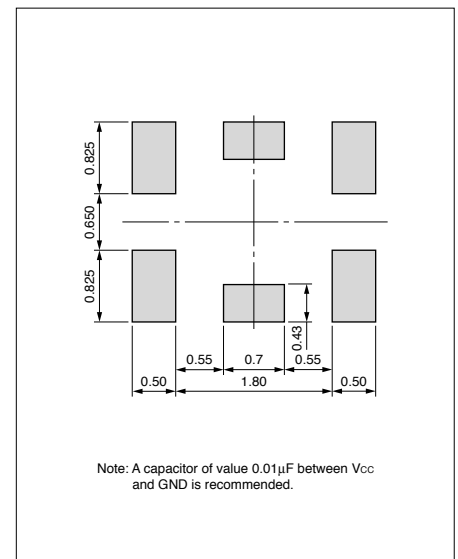


Test Circuit



Recommended Land Pattern

(Unit: mm)



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KYOCERA AVX:

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[KT2520F38400ZAW18TEK](#) [KT2520F26000ACW18TAN](#) [KT2520F19200CCW28TAK](#)