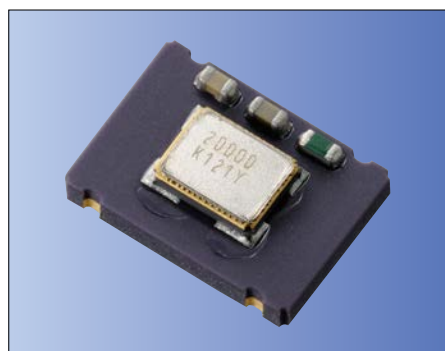


Temperature Compensated Crystal Oscillators (TCXO, VCTCXO)

Surface Mount Type TCXO (LSI Type) KT7050 Series for Femtocell/ Stratum3



7.0×5.0mm



RoHS Compliant

Features

- High stability and high reliability
- 2.7 to 5.5V drive available
- Clipped sine wave or CMOS level output
- Low phase noise
- Disable Function (KT7050A)

Applications

- Femtocell, Stratum3
- SONET/ SDH/ Ethernet

How to Order

For Femtocell (Standard Spec.)

Freq. Temp. Chrst. : $\pm 0.1 \times 10^{-6} / -10^{\circ}\text{C}$ to 70°C

KT7050 A 20000 A G T 33 T xx
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

For Stratum3 (Standard Spec.)

Freq. Temp. Chrst. : $\pm 0.28 \times 10^{-6} / -40^{\circ}\text{C}$ to 85°C

KT7050 A 20000 K A W 33 T xx
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Series

② Land Type

A	10Pads
B	4Pads

③ Output Frequency

④ Freq. Temp. Chrst.

A	$+0.1 \times 10^{-6}$
K	$\pm 0.28 \times 10^{-6}$

⑤ Lower Operating Temp.

A	-40°C
G	-10°C
J	0°C

⑥ Upper Operating Temp.

T	$+70^{\circ}\text{C}$
W	$+85^{\circ}\text{C}$

⑦ Supply Voltage

33	3.3V
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⑦ Voltage Control Function

T	TCXO
Other*	VCTCXO

* Customer Spec.

⑨ Option Code

Packaging (Tape & Reel 1000 pcs./ reel)

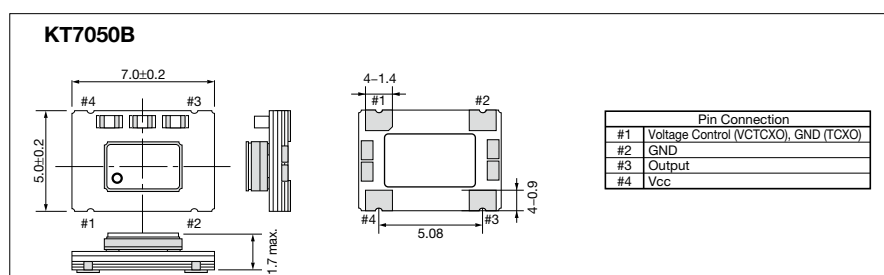
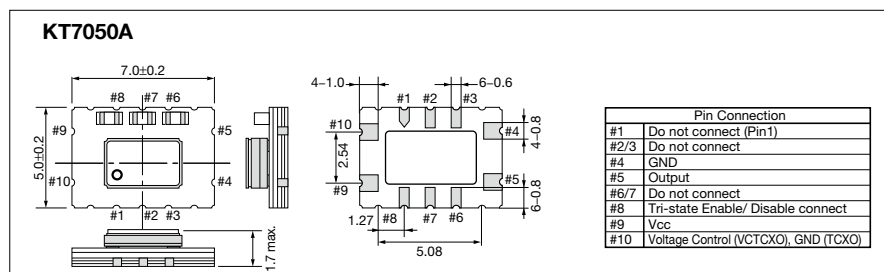
- Compliant to the GR1244-Core & GR253-Core
- Recommended in Microsemi's ZLAN-68 app. note for Stratum3 applications based on tests performed by Kyocera.

Specifications

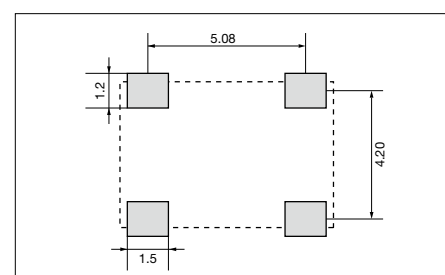
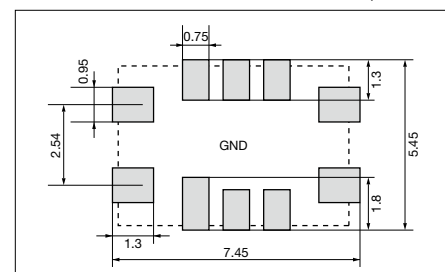
Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	fo	Standard Frequency: 10, 19.2, 20, 24.576, 26, 30.72, 38.88, 40	10	40	MHz
Frequency Tolerance	f _{tol}	vs Temperature (-10 to $+70^{\circ}\text{C}$) $[\pm(f_{\text{max}}-f_{\text{min}})/2f_0]$ vs Temperature (-40 to $+85^{\circ}\text{C}$) $[\pm(f_{\text{max}}-f_{\text{min}})/2f_0]$ vs Voltage	-0.1 -0.28 -0.1	+0.1 +0.28 +0.1	$\times 10^{-6}$
Supply Voltage	V _{CC}		+2.7	+5.5	V
Current Consumption	I _{CC}	CMOS output	—	6	mA
Frequency Aging	f _{age}	20years aging @ 40°C Including temp characteristics, initial tolerance, rated power supply voltage change and load change.	-4.6	+4.6	$\times 10^{-6}$
Voltage Control Range	f _{cont}	Positive *100k ohm min	± 5	± 20	$\times 10^{-6}$
Output Level	V _{pp}	Clipped Sine, Load: 10k ohm // 10pF	0.8	—	Vp-p
Low Level Output Voltage	V _{OL}	CMOS, Load: 15pF I _{OL} = 4mA	—	10% V _{CC}	V
High Level Output Voltage	V _{OH}	CMOS, Load: 15pF I _{OH} = -4mA	90% V _{CC}	—	V
Rise / Fall Time (10%V _{CC} to 90%V _{CC})	tr/ tf	CMOS, Load: 15pF	—	8	ns
Symmetry	SYM	50% V _{CC}	45	55	%
Phase Noise @20MHz	—	- 90 (@10Hz offset) -120 (@100Hz offset) -140 (@1kHz offset) -150 (@10kHz offset) -150 (@100kHz offset)			dBc/ Hz

* Please contact us for other specifications.

Dimensions



Recommended Land Pattern (Unit: mm)



Mouser Electronics

Authorized Distributor

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

[AVX:](#)

[KT7050A20000KAW33TAD](#) [KT7050A24576KAW33TAD](#) [KT7050B12800KAW33TAD](#)