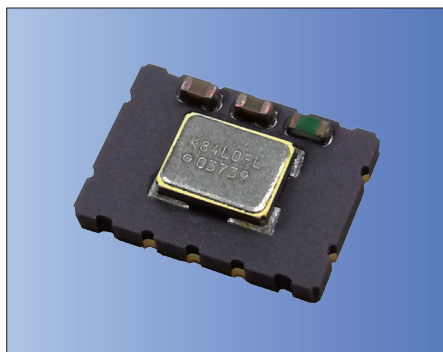




Temperature Compensated Crystal Oscillators (TCXO, VCTCXO) Surface Mount Type TCXO KT7050 Series for Smallcell/ Stratum3



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

- 5G, Smallcell, Stratum3
- SONET/ SDH/ Ethernet

How to Order

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

① Series	② Land Type		
③ Output Frequency	A	10Pads	
④ Freq. Temp. Chrst.	B	4Pads	
⑤ Lower Operating Temp.	⑥ Upper Operating Temp.		
	④	⑤	⑥
KAW	$\pm 0.28 \times 10^{-6}$	-40°C	+85°C
KAY	$\pm 0.28 \times 10^{-6}$	-40°C	+105°C
AAV	$\pm 0.10 \times 10^{-6}$	-40°C	+105°C
⑦ Supply Voltage	⑧ Voltage Control Function		
33	3.3V	T	TCXO
		Spec. Code*	VCTCXO

*Please contact us for Spec. Code.

⑨ Individual Specification

Packaging (Tape & Reel 1000 pcs./ reel)

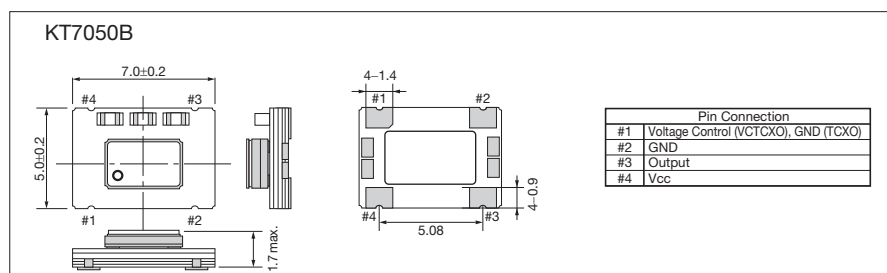
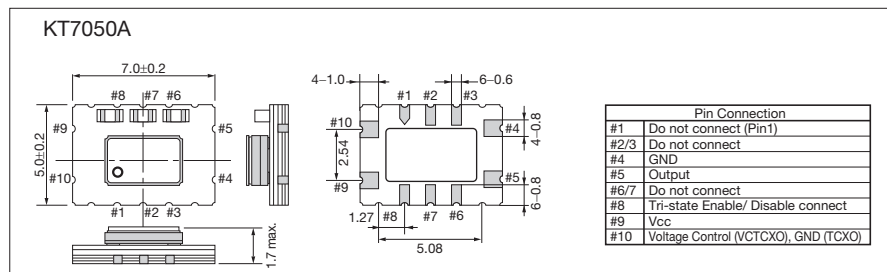
- Compliant to the GR1244-Core & GR253-Core
- Recommended in Microsemi's ZLAN-68 app. note for Stratum3 applications based on tests performed by Kyocera.

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 +105°C) [±(fmax-fmin)/ 2fo]		−0.1	+0.1	×10 ^{−6}
		vs Temperature (−40 to +85°C/ +105°C) [±(fmax-fmin)/ 2fo]		−0.28	+0.28	
		vs Voltage		−0.1	+0.1	
Supply Voltage	Vcc			+2.7	+5.5	V
Current Consumption	Icc	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	×10 ^{−6}
Voltage Control Range	f_cont	Positive *100k ohm min		±5	±20	×10 ^{−6}
Output Level	Vpp	Clipped Sine, Load: 10k ohm // 10pF		0.8	—	Vp-p
Low Level Output Voltage	VOL	CMOS, Load: 15pF	IOL=4mA	—	10% Vcc	V
High Level Output Voltage	VOH	CMOS, Load: 15pF	IOH=−4mA	90% Vcc	—	V
Rise / Fall Time (10%Vcc to 90%Vcc)	Tr/ Tf	CMOS, Load: 15pF		—	8	ns
Symmetry	SYM	50% Vcc		45	55	%
Phase Noise	—	@20MHz	@10Hz offset	—	−90	dBc/ Hz
			@100Hz offset	—	−120	
			@1kHz offset	—	−140	
			@10kHz offset	—	−150	
			@100kHz offset	—	−150	

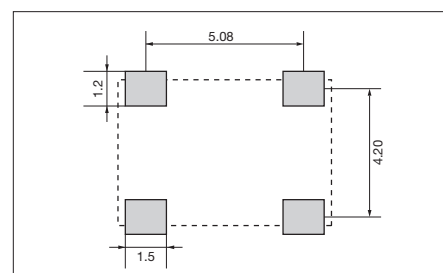
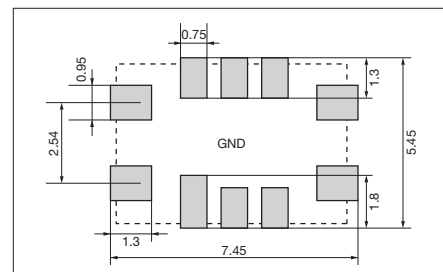
* Please contact us for other specifications.

Dimensions



Recommended Land Pattern

(Unit: mm)



Mouser Electronics

Authorized Distributor

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

[Kyocera:](#)

[KT2016K26000ZAW18T5S](#) [KT3225F16367ACW30TA0](#)