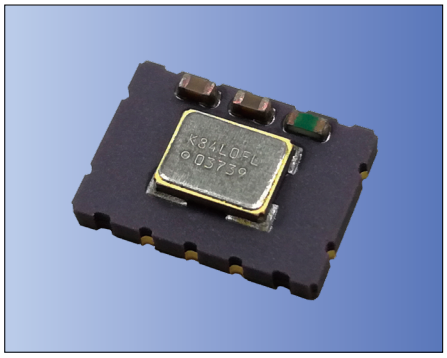
7.0×5.0mm



RoHS Compliant

Features

- High stability and high reliability
- 2.3 to 3.63V drive available
- Clipped sine wave or CMOS level output
- Low phase noise
- Disable Function (KT7050A)
- Operating Temp. −40 to +105°C (Option)

Applications

- 5G, Smallcell, Stratum3
- SONET/ SDH/ Ethernet
- SyncE/ IEEE 1588

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

How to Order

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

①Series
③Output Frequency
④Freq. Temp. Chrst.

U	±0.5×10⁻⁶
K	±0.28×10⁻⁶
A	±0.1×10⁻⁶

⑥Supply Voltage

33	3.3V

②Land Type

A	10Pads
B	4Pads

⑤Operating Temperature Range

GT	-10°C to 70°C
AW	-40°C to 85°C
AY	-40°C to 105°C

⑦Voltage Control Function

T	TCXO
Spec. Code*	VCTCXO

*Please contact us for Spec. Code.

⑧Individual Specification
Packaging (Tape & Reel 1000 pcs./ reel)

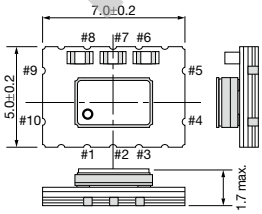
Specifications

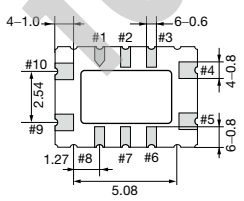
Item	Symbol	Conditions		Min.	Max.	Unit
Output Frequency Range	fo	Standard Frequency: 10 / 12.8 / 20 / 25.6 / 44.8		10	44.8	MHz
Frequency Tolerance	f_tol	vs Temperature [±(fmax-fmin)/ 2fo]		−0.5	+0.5	×10⁻⁶
				−0.28	+0.28	
				−0.1	+0.1	
		vs Voltage		−0.1	+0.1	
Supply Voltage	Vcc			+2.3	+3.63	V
Current 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

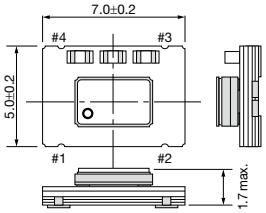
KT7050A

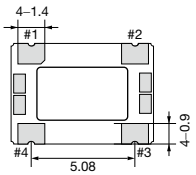




Pin Connection	
#1	Do not connect (Pin1)
#2/3	Do not connect
#4	GND
#5	Output
#6/7	Do not connect
#8	Tri-state Enable/ Disable connect
#9	Vcc
#10	Voltage Control (VCTCXO), GND (TCXO)

KT7050B





Pin Connection	
#1	Voltage Control (VCTCXO), GND (TCXO)
#2	GND
#3	Output
#4	Vcc

Recommended Land Pattern

(Unit: mm)