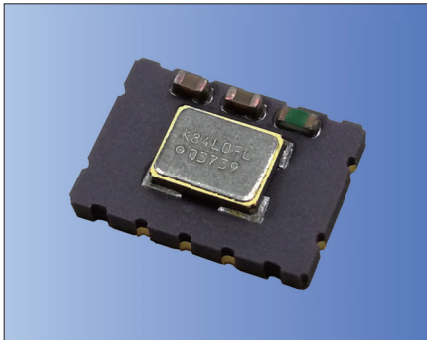




7.0x5.0mm



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 K A W 33 T xx
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

①Series

②Output Frequency

③Freq. Temp. Chrst.

④Lower Operating Temp.

⑤Supply Voltage

⑥Upper Operating Temp.

⑦Voltage Control Function

⑧Individual Specification

②Land Type

A	10Pads
B	4Pads

⑤

	④	⑤	⑥
KAW	$\pm 0.28 \times 10^{-6}$	-40°C	+85°C

33	3.3V	T	TCXO
		Spec. Code*	VCTCXO

*Please contact us for Spec. Code.

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

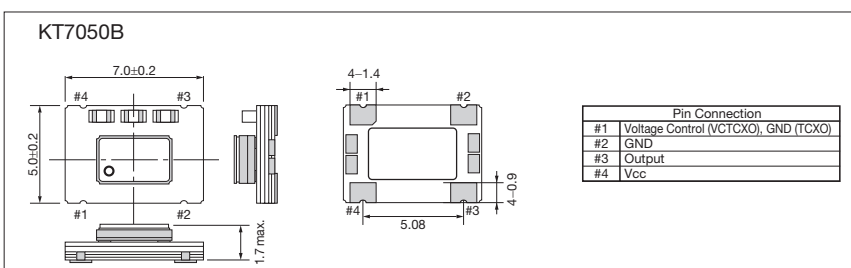
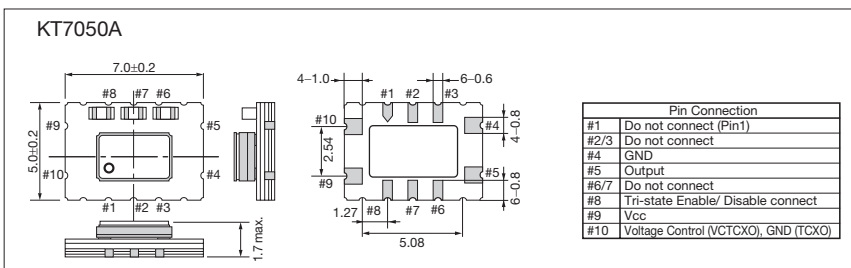
- Compliant to the GR1244-Core & GR253-Core
- Recommended in Microsemi's ZLAN-68 app. note for Stratum3 applications based on tests performed by Kyocera.

Specifications

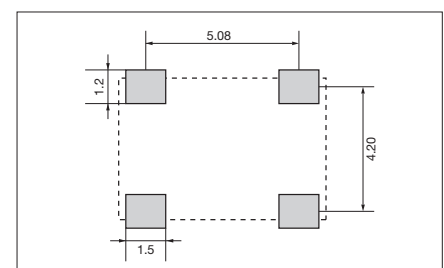
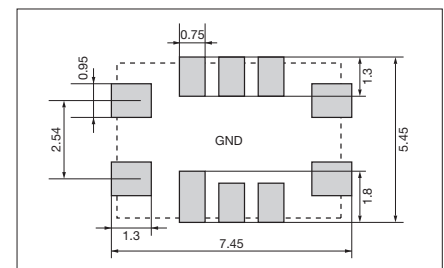
Item	Symbol	Conditions	Min.	Max.	Unit	
Output Frequency Range	f _o	Standard Frequency: 10, 19.2, 20, 24.576, 26, 30.72, 38.88, 40	10	40	MHz	
Frequency Tolerance	f _{tol}	vs Temperature (-40 to +85°C) [±(f _{max} -f _{min})/ 2f _o] vs Voltage	-0.28	+0.28	× 10 ⁻⁶	
Supply Voltage	V _{cc}		+2.7	+5.5	V	
Current 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	× 10 ⁻⁶	
Voltage Control Range	f _{cont}	Positive *100k ohm min	±5	±20	× 10 ⁻⁶	
Output Level	V _{pp}	Clipped Sine, Load: 10k ohm // 10pF	0.8	—	V _{p-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	@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)



Temperature Compensated Crystal Oscillators



As of August 2021