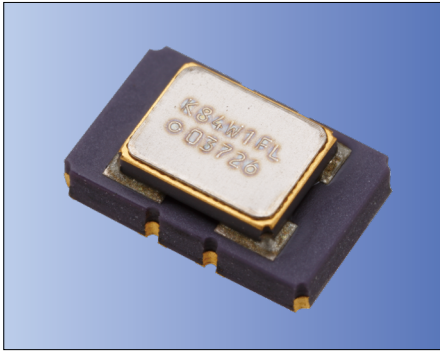




5.0x3.2mm



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
- Operating Temp. -40 to +105°C (Option)

Applications

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

How to Order

KT5032F	20000	□	□□	33	T	xx
①	②	③	④	⑤	⑥	⑦
①Series	②Output Frequency			④Operating Temperature Range		
③Frequency Tolerance	⑤Supply Voltage			⑥Voltage Control Function		
U ±0.5×10 ⁻⁶	K ±0.28×10 ⁻⁶	A ±0.1×10 ⁻⁶	GT -10°C to 70°C	AW -40°C to 85°C	AY -40°C to 105°C	
33	3.3V	T	TCXO	Spec. Code*	VCTCXO	

*Please contact us for Spec. Code.

⑧Individual Specification

Packaging (Tape & Reel 1000 pcs./ reel)

Specifications

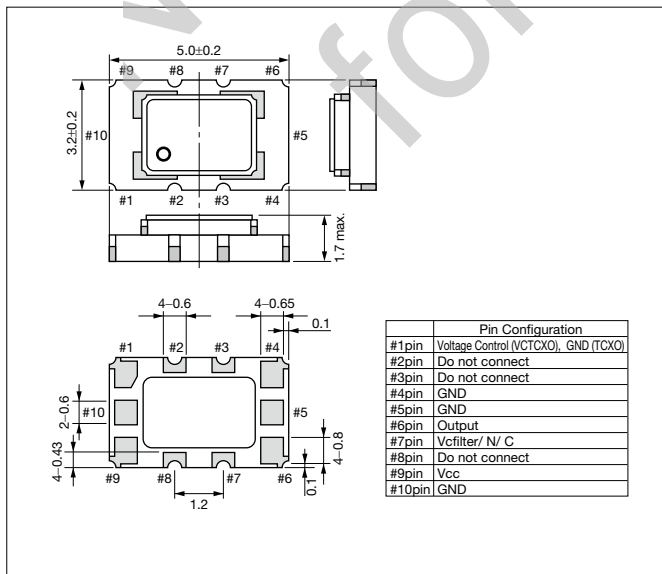
Item	Symbol	Conditions	Min.	Max.	Unit	
Output Frequency Range	f _o	Standard Frequency: 10 / 12.8 / 20 / 25.6 / 44.8	10	44.8	MHz	
Frequency Tolerance	f _{tol}	vs Temperature [±(f _{max} -f _{min})/ 2f _o]	-0.5	+0.5	×10 ⁻⁶	
		vs Voltage	-0.1	+0.1		
Supply Voltage	V _{cc}		+2.3	+3.63	V	
Current Consumption	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	—	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	@10Hz offset	—	-90	dBc/ Hz
			@100Hz offset	—	-120	
			@1kHz offset	—	-140	
			@10kHz offset	—	-150	
			@100kHz offset	—	-150	

* : A DC-cut capacitor is not embedded in this crystal oscillator. In case of clipped sine output, connect a DC-cut capacitor (≥1nF) to the line-out terminal of the oscillator.

* Please contact us for other specifications.

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

