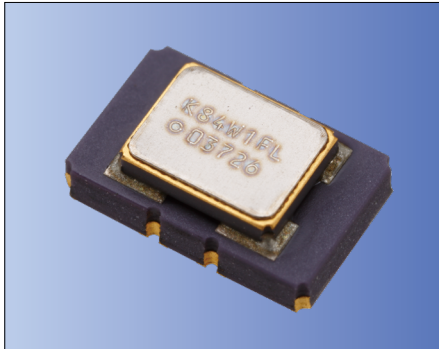




5.0×3.2mm



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

U	$\pm 0.5 \times 10^{-6}$
K	$\pm 0.28 \times 10^{-6}$
A	$\pm 0.1 \times 10^{-6}$

⑤Supply Voltage

33	3.3V
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②Output Frequency

④Operating Temperature Range

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

⑥Voltage Control Function

T	TCXO
Spec. Code*	VCTCXO

*Please contact us for Spec. Code.

⑧Individual Specification

Packaging (Tape & Reel 1000 pcs./ reel)

Specifications

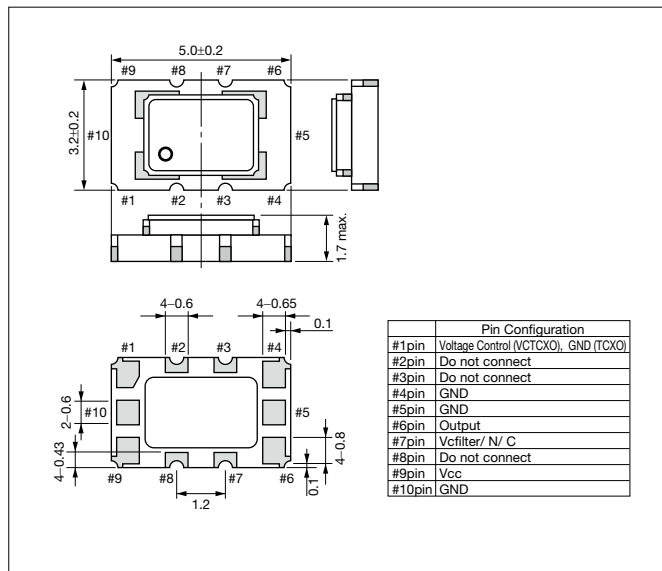
Item	Symbol	Conditions		Min.	Max.	Unit
Output Frequency Range	fo	Standard Frequency: 10 / 12.8 / 20 / 25.6 / 44.8		10	44.8	MHz
Frequency Tolerance	f_tol	vs Temperature [±(fmax-fmin)/ 2fo]		-0.5	+0.5	× 10 ⁻⁶
				-0.28	+0.28	
		vs Voltage		-0.1	+0.1	
Supply Voltage	Vcc			+2.3	+3.63	V
Current Consumption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

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

* Please contact us for other specifications.

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

