

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

Applications

- Femtocell, Stratum3

How to Order

For Femtocell (Standard Spec.)

Frequency Tolerance (vs Temp.) : $\pm 0.1 \times 10^{-6} / -10^{\circ}\text{C}$ to 70°C

KT5032F 26000 A G T 33 T xx
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

For Stratum3 (Standard Spec.)

Frequency Tolerance (vs Temp.) : $\pm 0.28 \times 10^{-6} / -40^{\circ}\text{C}$ to 85°C

KT5032F 26000 K A W 33 T xx
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series		⑤ Upper Operating Temp.	
② Output Frequency		T	+70°C
③ Frequency Tolerance		W	+85°C
A	$+0.1 \times 10^{-6}$	⑥ Supply Voltage	
K	$\pm 0.28 \times 10^{-6}$	33	3.3V
④ Lower Operating Temp.		⑦ Voltage Control Range	
A	-40°C	T	TCXO
G	-10°C	Other*	VCTCXO
J	0°C		

* Customer Spec.

⑧ Option Code

Packaging (Tape & Reel 1000 pcs./ reel)

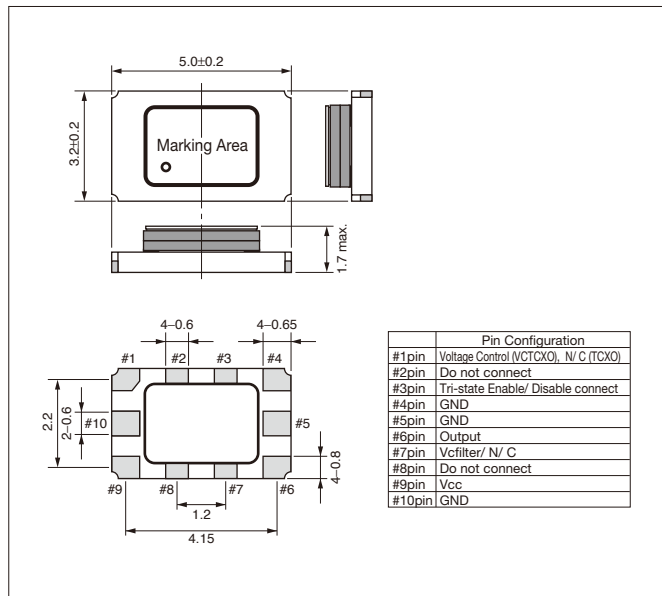
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	fo	Standard Frequency: 10, 12.8, 16.368, 19.2, 19.44, 20, 20.48, 26	—	—	MHz
Frequency Tolerance	f _{tol}	vs Temperature (-10 to +70°C)	-0.1	+0.1	$\times 10^{-6}$
		vs Temperature (-40 to +85°C)	-0.28	+0.28	
Supply Voltage	V _{CC}		-0.1	+0.1	
Current Consumption	I _{CC}	26MHz CMOS output	—	5	mA
Frequency Aging	f _{age}	20years @40°C	-4.6	+4.6	$\times 10^{-6}$
Voltage Control Range	f _{cont}	Positive *100k ohm min	± 5	± 20	$\times 10^{-6}$
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	—	5	ns
Symmetry	SYM	50% V _{CC}	45	55	%
Phase Noise @26MHz	—	- 90 (@10Hz offset) -120 (@100Hz offset) -140 (@1kHz offset) -150 (@10kHz offset) -150 (@100kHz offset)			dBc/ Hz

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

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

