

Voltage Controlled Crystal Oscillators (VCXO)

Surface Mount Type KV5032C-C3 Series



CMOS/ 3.3V/ 5.0×3.2mm



RoHS Compliant

Features

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output
- Supply voltage $V_{CC}=3.3V$
- Excellent Jitter performance

Table 1

Freq. Tol. Code	Tol. $\times 10^{-6}$	Operating Temperature Range (°C)	Note
O	± 50	-10 to +70	Standard specifications
S	± 30	-10 to +70	With only certain frequencies
G	± 50	-40 to +85	

How to Order

KV5032C 74.1758 C 3 0 F 00
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Type (5.0×3.2mm SMD VCXO)
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (3.3V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry (45/ 55%)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./ reel)

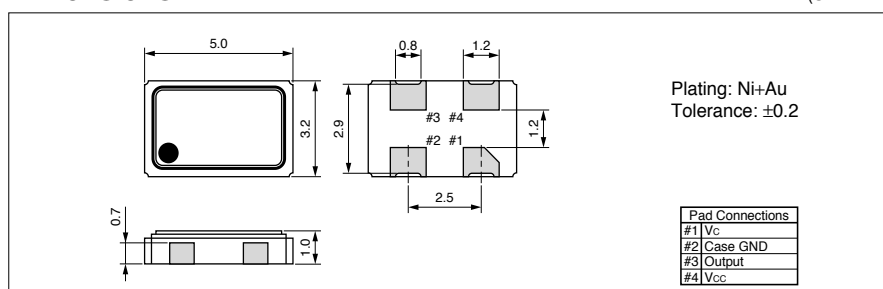
Specifications

Item	Symbol	Conditions	Min.	Max.	Units	
Output Frequency Range	fo		1.5	80	MHz	
Frequency Tolerance	f _{tol}	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1 year @25°C), Shock and vibration	Op. Temp.: -10 to +70°C/ -40 to +85°C	-50	+50	$\times 10^{-6}$
			Op. Temp.: -10 to +70°C	-30	+30	
Absolute Pull Range	APR	1.5≤fo≤30 30<fo≤80	± 100 ± 50	—	$\times 10^{-6}$	
Control Voltage	V _c		0	+3.3	V	
Storage Temperature Range	T _{stg}		-55	+125	°C	
Operating Temperature Range	T _{use}	Standard Specifications	-10	+70	°C	
		Extend (Option)	-40	+85		
Max. Supply Voltage	—		-0.5	+7	V	
Supply Voltage	V _{CC}		+2.97	+3.63	V	
Current Consumption	I _{CC}		—	15	mA	
Symmetry	SYM	@50% V _{CC}	45	55	%	
Rise/ Fall Time (10% V _{CC} to 90% V _{CC})	tr/ tf	1.5≤fo≤30	—	8	ns	
		30<fo≤80	—	5		
Low Level Output Voltage	V _{OL}		—	10% V _{CC}	V	
High Level Output Voltage	V _{OH}		90% V _{CC}	—	V	
CMOS Load	L _{CMOS}		—	15	pF	
Input Resistance	—	Standard Specifications	100k	—	ohm	
		Extend (Option)	5M	—		
Start-up Time	t _{str}	@Minimum operating voltage to be 0 sec.	—	10	ms	
Phase Jitter	J _{Phase}	12kHz to 20MHz @27MHz	—	1	ps	
Phase Noise @27.0000MHz	—	- 70 (@10Hz offset) - 100 (@100Hz offset) - 130 (@1kHz offset) - 145 (@10kHz offset) - 152 (@100kHz offset) - 158 (@1MHz offset) - 158 (@10MHz offset)			dBc/ Hz	

Note: All electrical characteristics are defined at the maximum load and operating temperature range.
 Please contact us for inquiry about operating temperature range, available frequencies and other conditions.

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

