Clock Oscillators Surface Mount Type
KC5032D Series (FXO-64F2 Series)

KYOCERA

CMOS/ 3.3V/ 5.0V/ 5.0×3.2mm

RoHS Compliant

Features

- A built-in high-precision CMOS IC suitable for a wide range of temperature
- Ideal for base stations and DSC, DVC, car navigation and PHS systems etc.
- Lower noise and lower current for reduced power consumption
- Supply voltage Vcc=3.3/ 5.0V available

Frequency Tolerance (Overall)

Freq. Tol. Code	Freq. Tol. × 10^{-6}	Operating Temperature Range (°C)	Note
P	±100	–30 to +85 (Standard)	1.8 to 32MHz
Q	± 50		
R	± 30		

How to Order

KC5032D 15.3600 C 3 P B 00
① ② ③ ④ ⑤ ⑥ ⑦

① Type
② Output Frequency
③ Output Type (CMOS)
④ Supply Voltage 5=5.0V, 3=3.3V
⑤ Frequency Tolerance
⑥ Symmetry/ INH Function
A: 40/ 60%, Disable
B: 40/ 60%, Stand-by
⑦ Customer Special Model Suffix
(STD Specification is "00")

Symmetry/ INH Function

Freq. (MHz)	Code	
	KC5032D-C5	KC5032D-C3
1.8 to 7.9	A	B
8 to 32	B	B

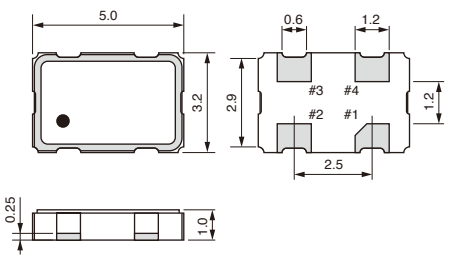
Specifications

Item	Symbol	Conditions		Units
		KC5032Dxx.xxxxC5xx00 (FXO-64F2)	KC5032Dxx.xxxxC3xB00 (FXO-64FL2)	
Output Frequency Range	fo	1.8 to 32		MHz
Frequency Tolerance (Overall)	f_tol	±30		×10^{-6}
		±50		
		±100		
Storage Temperature Range	T_stg	–40 to +85		°C
Operating Temperature Range	T_use	–30 to +85		°C
Max. Supply Voltage	—	7 max.		V
Supply Voltage	Vcc	5±5%	3.3±5%	V
Current Consumption	Icc	12 max.	10 max.	mA
Stand-by/ Disable Current	I_std	8 max.		µA
Symmetry	SYM	40 to 60@50%Vcc		%
Rise/ Fall Time	tr/ tf	12 max.	16 max.	ns
Low Level Output Voltage	VOL	10% Vcc max.		V
High Level Output Voltage	VOH	90% Vcc min.		V
CMOS Load	L_CMOS	15 max.		pF
Input Voltage Range	VIN	0 to Vcc	0 to Vcc	V
Low Level Input Voltage	VIL	0.8 max.	0.3 max.	V
High Level Input Voltage	VIH	2.2 min.	2.2 min.	V
Disable Time	t_dis	150 max.		ns
Enable Time	t_ena	5 max.		ms
Start-up Time	t_str	10 max.		ms

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)



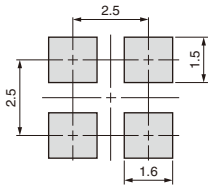
Plating: Ni+Au
Tolerance: ±0.2

Pad Connections	
#1	INH
#2	GND
#3	Output
#4	Vcc

INH Function	
Pad1	Pad3 (Output)
Open	Active
"H" Level	Active
"L" Level	High Z (Output-Stop)

Recommended Land Pattern

(Unit: mm)



Note: A capacitor of value 0.01µF between Vcc and GND is recommended.