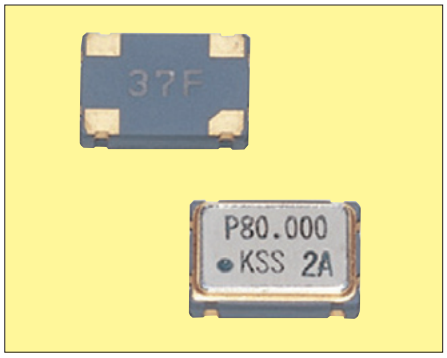
Clock Crystal Oscillators Surface Mount Type
KC7050B Series (FXO-37FN Series)

KYOCERA

CMOS/ 3.3V/ 5.5V/ 7.0×5.0mm



Pb Free

RoHS Compliant

Features

- Surface mount type suitable for auto pick-and-place
- Reflow compatible
- CMOS, TTL IC direct drive is possible
- With tri-state function
- Broad frequency range from 80MHz to 125MHz, (PLL circuit is built in)
- Supply voltage Vcc=3.3/ 5.0V available

Frequency Tolerance (Overall)

Freq. Tol. Code	Freq. Tol. × 10^{-6}	Operating Temperature Range (°C)	Note
1	± 100	−10 to +70 (Standard)	80 to 125MHz
0	± 50		

How to Order

KC7050B 80.0000 C 3 0 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 (See Table at Left)
⑥ Symmetry/ Enable Function (40/ 60%, INH)
⑦ Customer Special Model Suffix
(STD Specification is "00")

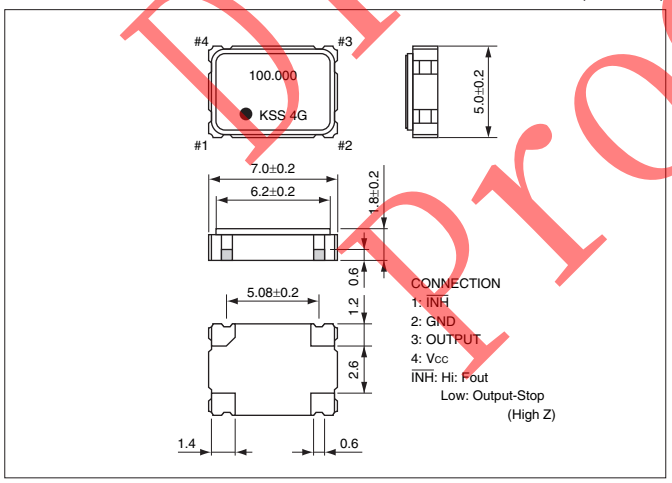
Specifications

Item	Symbol	Conditions	Specifications Min.	Specifications Max.	Units
Output Frequency Range	Fo		80	125	MHz
Frequency Tolerance (Overall)	F_tol		−50	+50	×10^{-6}
			−100	+100	
Storage Temperature Range	T_stg		−20	+80	°C
Operating Temperature Range	T_use		−10	+70	°C
Max. Supply Voltage	—		—	6	V
Supply Voltage	Vcc	3.3V Type	3.135	3.465	V
		5.5V Type	4.75	5.25	
Current Consumption	Icc		—	50	mA
Stand-by Current	I_std		—	60	µA
Symmetry	SYM	@50% Vcc	40	60	%
Rise/ Fall Time	tr/ tf		—	7	nS
Low Level Output Voltage	VOL		—	10% Vcc	V
High Level Output Voltage	VOH		90% Vcc	—	V
Output Load	CL		—	15	pF
Input Voltage Range	VIN		Vss	Vcc	V
Low Level Input Voltage	VIL		—	30% Vcc	V
High Level Input Voltage	VIH		70% Vcc	—	V
Disable Time	t_dis		—	1	mS
Enable Time	t_ena			3	mS
Start-up Time	t_str		—	10	mS

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

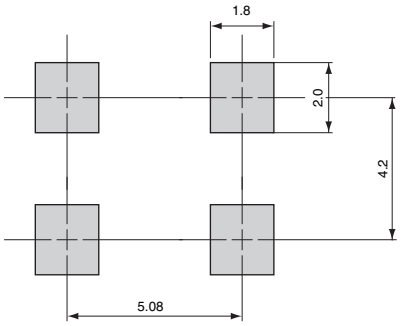
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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