Voltage Controlled Crystal Oscillators (VCXO)
Surface Mount Type KV7050A Series (VC-FXO-35F Series)

CMOS/ 3.3V/ 5.0V/ 7.0×5.0mm



RoHS Compliant

Features

- Surface mouont type suitable for auto pick-and-place
- Reflow soldering compatible
- Supply voltage Vcc=3.3/ 5.0V available
- for DTV, DVD Applications

How to Order

KV7050A 27.0000 C 3 S C 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 (S=±30×10^{-6})
⑥ Symmetry (40/ 60%)
⑦ Customer Special Model Suffix
(STD Specification is "00")

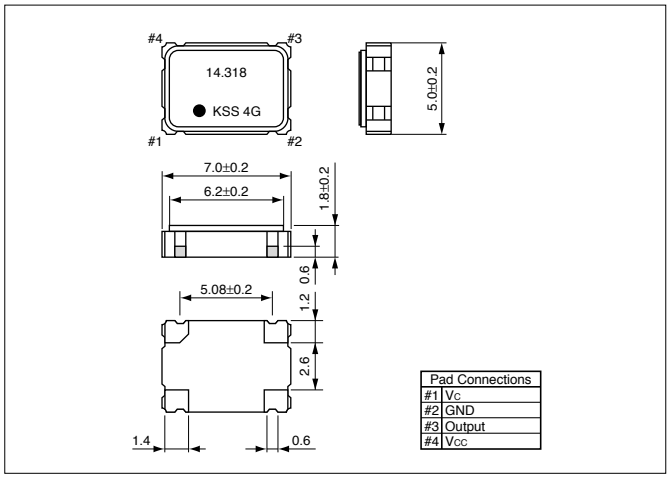
Specifications

Item	Symbol	Specifications		Units
		KV7050Axx.xxxxC5SC00 (VC-FXO-35F)	KV7050Axx.xxxxC3SC00 (VC-FXO-35FL)	
Output Frequency Range	fo	8 to 30	8 to 30	MHz
Frequency Tolerance (Overall)	f_tol	±30		×10^{-6}
Storage Temperature Range	T_stg	−35 to +85		°C
Operating Temperature Range	T_use	−10 to +70		°C
Max. Supply Voltage	—	7 max.		V
Supply Voltage	Vcc	5±5%	3.3±5%	V
Current Consumption	Icc	25 max.	20 max.	mA
Symmetry	SYM	40 to 60@50%Vcc		%
Rise/ Fall Time	tr/ tf	10 max.	15 max.	ns
Low Level Output Voltage	VOL	0.5 max.		V
High Level Output Voltage	VOH	90% Vcc min.		V
CMOS Load	L_CMOS	15		pF
Start-up Time	t_str	10 max.		ms
Voltage Control Range	f_cont	±50 min.	±50 min.	×10^{-6}
Frequency Deviation	f_cont	2.5V±2.5V	1.65V±1.65V	V

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.

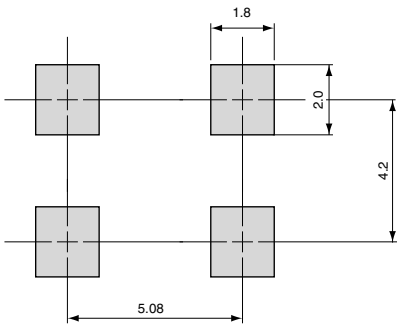
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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