

# 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 mount type suitable for auto pick-and-place
- Reflow soldering compatible
- Supply voltage  $V_{cc} = 3.3/ 5.0V$  available
- for DTV, DVD Applications

### How to Order

KV7050A 27.0000 C 3 S C 00  
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Series
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage 5 = 5.0V, 3 = 3.3V
- ⑤ Frequency Tolerance (S =  $\pm 30 \times 10^{-6}$ )
- ⑥ Symmetry (40/ 60%)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

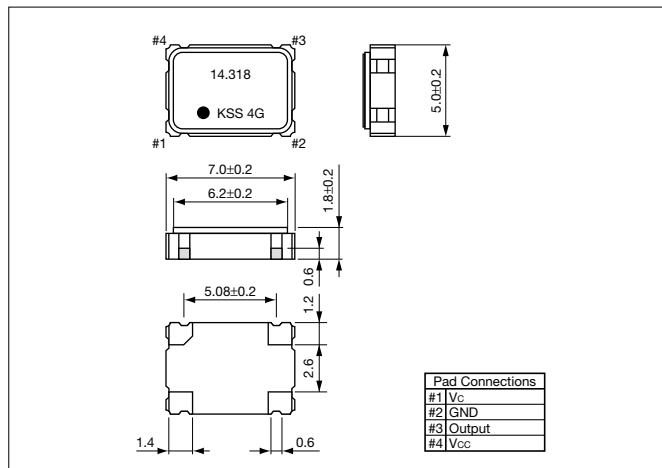
### Specifications

Item	Symbol	Specifications		Units
		KV7050Axx.xxxxC5SC00 (VC-FXO-35F)	KV7050Axx.xxxxC3SC00 (VC-FXO-35FL)	
Output Frequency Range	$f_o$	8 to 30	8 to 30	MHz
Frequency Tolerance (Overall)	$f_{tol}$	$\pm 30$		$\times 10^{-6}$
Storage Temperature Range	$T_{stg}$	-35 to +85		$^{\circ}C$
Operating Temperature Range	$T_{use}$	-10 to +70		$^{\circ}C$
Max. Supply Voltage	—	7 max.		V
Supply Voltage	$V_{cc}$	5 $\pm$ 5%	3.3 $\pm$ 5%	V
Current Consumption	$I_{cc}$	25 max.	20 max.	mA
Symmetry	SYM	40 to 60@50% $V_{cc}$		%
Rise/ Fall Time	$t_r/ t_f$	10 max.	15 max.	ns
Low Level Output Voltage	$V_{OL}$	0.5 max.		V
High Level Output Voltage	$V_{OH}$	90% $V_{cc}$ min.		V
CMOS Load	$L_{CMOS}$	15		pF
Start-up Time	$t_{str}$	10 max.		ms
Voltage Control Range	$f_{cont}$	$\pm 50$ min.	$\pm 50$ min.	$\times 10^{-6}$
Frequency Deviation	$f_{cont}$	2.5V $\pm$ 2.5V	1.65V $\pm$ 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)

