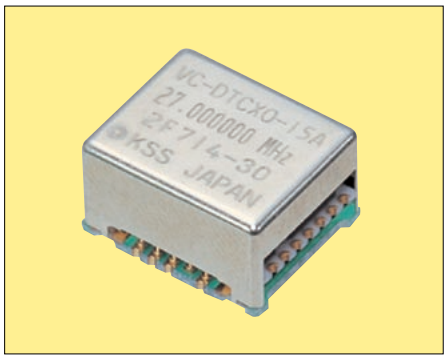
High Precision Crystal Oscillators
Surface Mount Type Digital TCXO (VC-)DTCXO-15A



Features

- Small size (14.0×11.5×8.0mm), lead-less type (SMD)
- Supply voltage of 3.3V or 5.0V is available
- Digital processing temperature compensated crystal oscillator
- High stability (±0.5×10^{-6}max./–30 to 80:)

Applications

- Reference Oscillator
- PLL Oscillator

How to Order

DO ① 20.000000000 ② M ③ 00001 ④

①Function
DO→DTCXO, DV→VC-DTCXO
②Output Frequency
③Frequency Unit
M→MHz, K→kHz
④Individual Specification

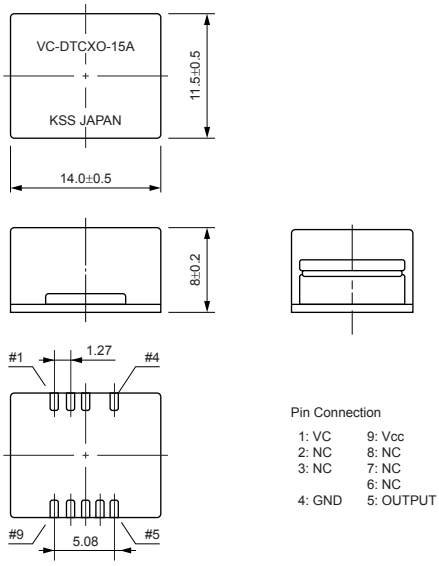
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	F_O		10	40	MHz
Frequency Tolerance	F_{tol}	vs Temperature VC=Open	–0.5	+0.5	×10^{-6}
		vs Voltage	–0.05	+0.05	
Storage Temperature Range	T_{stg}		–40	+85	°C
Operating Temperature Range	T_{use}		–30	+80	°C
Supply Voltage	V_{CC}		3.14	3.46	V
Current Consumption	I_{CC}		—	15	mA
Frequency Aging	ΔF aging	Per Year (at +25°C)	–0.7	0.7	×10^{-6}
Frequency Deviation	Δf/V		–10	10	×10^{-6}
Control Voltage	VC		0.5	2.5	V
Symmetry	SYM	50% V_{CC}	30	70	%
Output Voltage-"L"	V_{OL}		—	0.3	V
Output Voltage-"H"	V_{OH}		3	—	V
Load	CL		15	15	pF

Note: All electrical characteristics are defined at the maximum load and operating temperature range.

Dimensions

(Unit : mm)



Recommended Land Pattern

(Unit : mm)