HCMOS TCXO
STO-7050B

Applications

- Cellular and Network equipment

Features

- HCMOS output with Tri-state function
- Ceramic package, Dimensions(7.0×5.0×1.40)
- High stability ±2.5ppm / -30℃ ~+75℃
- Low current consumption
- Low phase noise, Low jitter

Specifications

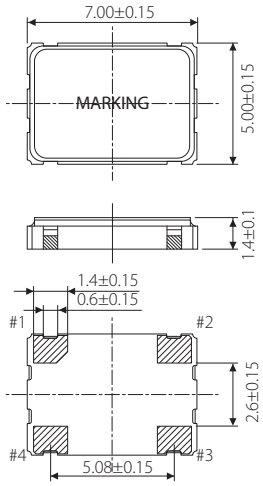
Model		STO-7050B
Frequency range		2.500~55.000 MHz
Nominal frequency (MHz)		5, 10, 12, 16, 20, 24, 32, 40, 44
Storage temperature range		-40~+125 ℃
Operating temperature range		-30~+75 ℃
Frequency stability	Tolerance at 25℃	$\pm 2.0 \times 10^{-6}$ (Sixty minutes after reflow)
	Temperature (+25℃ basis)	$\pm 2.5 \times 10^{-6}$ / -30~+75℃
	Supply voltage change	$\pm 0.2 \times 10^{-6}$ / Vdd ± 5%
	Load change	$\pm 0.2 \times 10^{-6}$ / ZL ± 10%
Aging		$\pm 1.0 \times 10^{-6}$ / year at +25℃
Power supply voltage (Vdd)		+2.5V, +2.8V, +3.3V DC ±5%
Current consumption		*note / 10uA max (Standby)
Output level		C-MOS
Load		15pF
Output voltage level		V_{OL}: 10%Vdd max. / V_{OH}: 90%Vdd min.
Rise & Fall time		5ns max. / 10%Vdd - 90%Vdd
Duty cycle		45%~55% at 1/2Vdd
Phase Noise / Jitter		-145dBc / Hz Typ. at 10kHz offset / 1 σ 3ps typ.
Tri-state Function		#1: Floating. or "H"→Output enable / #1: "L"→Output disable (Hi-Z)

*Reference / Idd Spec (mA max.)

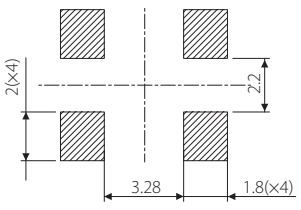
Frequency	4~10MHz	~20MHz	~30MHz	~40MHz	~54MHz
2.5V	3.1	3.7	4.2	4.6	5.5
2.8V	3.4	4.1	4.7	5.2	6.0
3.3V	4.0	4.8	5.5	6.0	7.0

Package quantity: 1,000pcs max./Reel.

Outline and Dimensions [unit:mm]



Example of a Terminal Land Pattern



Terminal	Connection
#1	Tri-state
#2	GND
#3	OUTPUT
#4	Vdd

Tri-state Function

Tri-state Pin	Output
High or Floating	Active
Low	Hi-impedance