

HCMOS TCXO

STO-2520B



Applications

- Communication Equipment

Features

- HCMOS output with Tri-state function
- Ceramic package, Dimensions(2.5×2.0×0.9)
- High stability $\pm 2.5\text{ppm} / -30^{\circ}\text{C} \sim +75^{\circ}\text{C}$
- Low current consumption
- Low phase noise, Low jitter

Specifications



Model		STO-2520B
Frequency range		4.0~55.0MHz
Nominal frequency (MHz)		5, 10, 12, 16, 20, 24, 32, 40, 54
Storage temperature range		-40~+125 °C
Operating temperature range		-30~+75 °C
Frequency stability	Tolerance at 25°C	$\pm 2.0 \times 10^{-6}$ (Sixty minutes after reflow)
	Temperature (+25°C basis)	$\pm 2.5 \times 10^{-6} / -30 \sim +75^{\circ}\text{C}$
	Supply voltage change	$\pm 0.2 \times 10^{-6} / V_{\text{dd}} \pm 5\%$
	Load change	$\pm 0.2 \times 10^{-6} / Z_L \pm 10\%$
Aging		$\pm 1.0 \times 10^{-6} / \text{year at } +25^{\circ}\text{C}$
Power supply voltage (Vdd)		+2.5V, +2.8V, +3.3V DC $\pm 5\%$
Current consumption		*note / 10uA max (Standby)
Output level		C-MOS
Load		15pF
Output voltage level		Vol:10%Vdd max. / VoH: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)

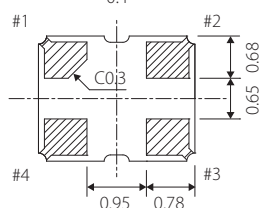
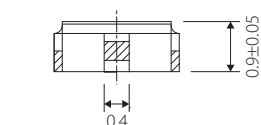
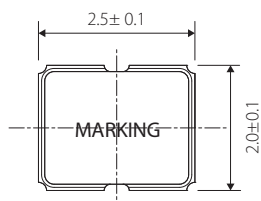
*Reference / Idd Spec

(mA max.)

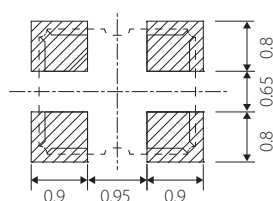
Frequency	4~10MHz	~20MHz	~30MHz	~40MHz	~54MHz
2.5V	3.1	3.7	4.2	4.6	5.5
2.8V	3.4	4.1	4.7	5.2	6.0
3.3V	4.0	4.8	5.5	6.0	7.0

Package quantity: 3,000pcs max./Reel.

Outline and Dimensions [unit:mm]



Land Pattern(REFERENCE)



Terminal	Connection
#1	Tri-state
#2	GND
#3	Output
#4	Vcc

Tri-state Function	
Tri-state pin	Output
High or Floating	Active
Low	Hi-Impedance