

# VTB01, TB01



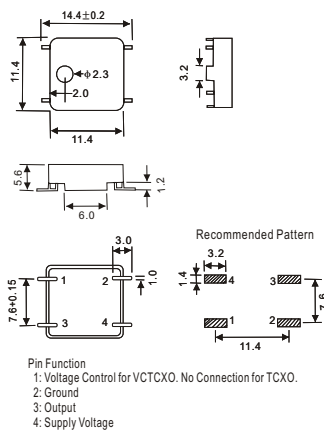
- Excellent frequency stability across a wide temperature range
- SMD package
- Low power consumption

## Table 1 Specifications

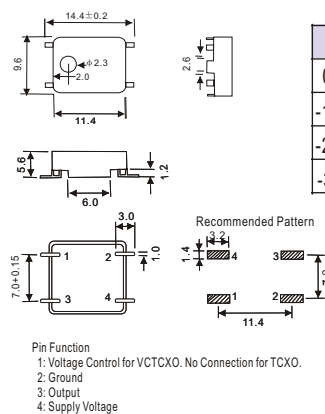
Parameter		
Frequency Range		10~30MHz
Initial Calibration Tolerance(@25°C ±2°C)		± 1ppm typical
Frequency Stability	vs Operation Temp. Range	See Table 2
	vs Vcc Change ± 5%	± 0.3ppm
	vs Load Change ± 10%	± 0.3ppm
	vs Aging	± 1ppm/Year
Operation Temperature Range		See Table 2
Supply Voltage		3.3V ± 5%, 3.3V ± 5%, 5V ± 5%
Current Consumption		3mA max
Output	TTL/CMOS	Square Wave, Wave Form Code is "T"
	Clipped Sine	0.8Vp-p min, 10kΩ//10pF Load, Wave Form Code is "CS"
Start-up Time		2ms max
SSB Phase Noise		-135dBc@1KHz, 10MHz, typical
VCTCXO only	Frequency Tuning Range	± 7ppm ~ ± 12ppm
	Control Voltage Range	1.5V ± 1.0V@3.0V, 1.65V ± 1.0V@3.3V, 2.5V ± 2.0V@5.0V
	Slope Polarity	Positive
	Linearity	10%max
Package		B11, B12
Storage Temperature Range		-40~+85°C

## Table 2 Frequency Stability vs Operation Temperature Range(Ref to 25°C) & Option

### Package B11



### Package B12



	±1.0ppm	±1.5ppm	±2.0ppm	±2.5ppm	±3.0ppm	±5.0ppm
0~50°C	A10	A15	A20	A25	A30	A50
-10~60°C	B10	B15	B20	B25	B30	B50
-20~70°C		C15	C20	C25	C30	C50
-30~75°C		D15	D20	D25	D30	D50

## SMD TCXOs

Sample Part Numbers

VTB01-3.3TC20-B11

@19.680MHz

### Part Numbering Key

SERIES	SUPPLY VOLTAGE	OUTPUT FORM	FREQ.STABILITY vs.TEMP	PACKAGE CODE
TB01	3=3.0V	T=TTL/CMOS	See Table2	B11,B12,
VTB01	3.3=3.3V 5=5.0V	CS=Clipped Sine T		
VTB01	3.3		C20	B11