

# VT53, T53



Excellent frequency stability across a wide temperature range..  
Ultra-minimum size, 5\*3.2mm SMD package.  
Low power consumption.  
High quality TCXO for communication equipment(Mobile phone, Wifi,GPS etc).

**Table1 Specifications**

Parameter		T53/VT53
Frequency Range		10~30MHz
Initial Calibration Tolerance (@25 ±2 )		±1ppm typical
Frequency Stability	vs Operation Temperature Range	See Table 2
	vs Vcc Change ±5%	±0.2ppm
	vs Load Change ±10%	±0.2ppm
	vs Aging	±1ppm/Year
Operation Temperature Range		See Table 2
Supply Voltage		3.0V±0.15V
Current Consumption		2mA max
Output	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	±12ppm typical
	Control Voltage Range	1.5V±1.0V
	Slope Polarity	Positive
	Linearity	10%max
Package		TM53, TM65 , TM75
Storage Temperature Range		-40~+85

**Table2 Frequency Stability vs Operation Temperature Range(Ref to 25 ) & Option Code**

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

**SMD TCXOs Part Numbering Key**

SERIES	OUTPUT FORM	FREQ. STABILITY vs.TEMP	Package option	FREQUENCY
T75,VT75 T63,VT63 T53,VT53	CS=Clipped Sine T=TTL/CMOS	See Table2	-L	
<b>VT53</b>	<b>CS</b>	<b>C20</b>		<b>19.680MHz</b>

Sample Part Numbers

**VT53-CSC20@19.680Mhz**