



VTA01, TA01

- ◆ Excellent frequency stability across a wide temperature range..
- ◆ Good Reliability, Low cost.
- ◆ Multi purpose used.
- ◆ High quality TCXO for communication equipment.

Table1 Specifications

Parameter		VTA01, TA01		
Frequency Range		8~50MHz		
Initial Calibration Tolerance (@25°C±2°C)		Models with internal trimmer :Adjust to the nominal frequency Models without internal trimmer :±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		
Operation Temperature Range		See Table 2		
Supply Voltage		3.3V, 5.0V		
Current Consumption		3mA max	20mA max	10mA max
Output	Load	10kΩ//10pF	5TTL or 15pF	10kΩ//10pF
	Wave Form	0.8Vp-p min, Code is "CS"	TTL/CMOS, Code is "T"	Sine, 1Vp-p min , Code is "S"
	Harmonic Suppression	-	-	-30dB max
	Non-Harmonic Suppression	-	-	-70dB max
Start-up Time		2ms max		
SSB Phase Noise		-135dBc@1kHz, 10MHz, typical		
Frequency Tuning Range (@25°C±2°C)		±3ppm typical, by internal trimmer		
VCTCXO only	Frequency Tuning Range	±5~±30ppm, ±15ppm typical		
	Control Voltage Range	1.65V±1.5V@3.3Vcc, 2.5V±2V@5.0Vcc		
	Slope Polarity	Positive		
	Linearity	10%max		
Package		A11,A12,A13,A14,A15,A16		
Storage Temperature Range		-55~+85°C		

Table2 Frequency Stability vs Operation Temperature Range(Ref to 25°C) and Option Code

	±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	C10	C15	C20	C25	C30	C50
-30~75°C		D15	D20	D25	D30	D50
-40~85°C					E30	E50

TCXOs

Part Numbering Key

SERIES	Supply Voltage	OUTPUT FORM	FREQ. STABILITY vs.TEMP	PACKAGE CODE	FREQUENCY
TA01 VTA01	3.3=3.3V 5=5.0V	CS=Clipped Sine T=TTL/CMOS S=Sine	See Table2	A11,A12, A13,A14 A15,A16	
VTA01	5	CS	D20	A11	20.000MHz

Sample Part Numbers

**VTA01-5CSD20-A11
@20.000MHz**