



TT1000/ TT1000S



RoHS Compliant Optional

# TCXOs, VCTCXOs

## TT~VT1000/TT~VT1000S Series TCXO/ VCTCXO

### Features:

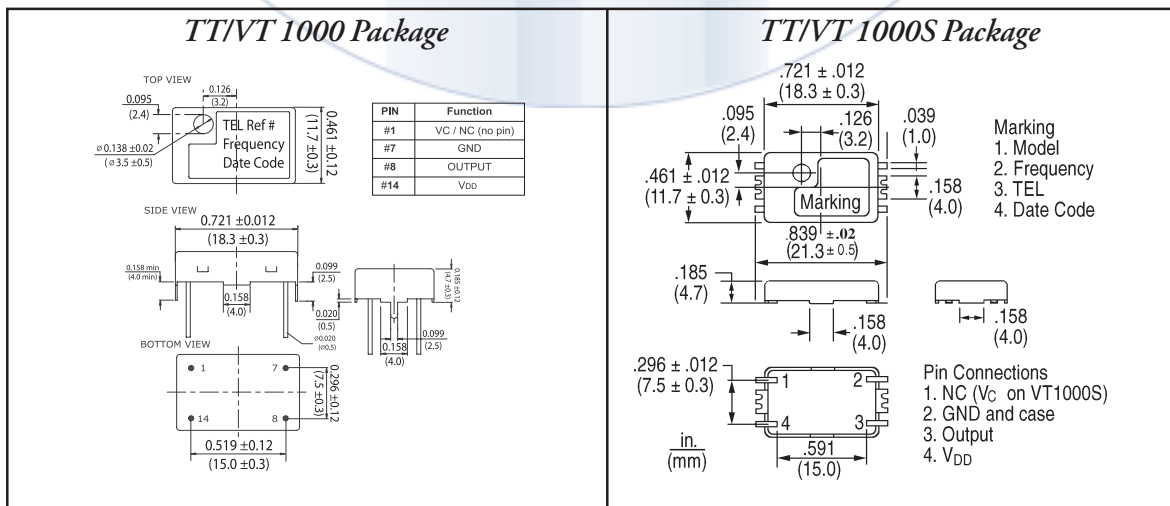
- ◆ Low Cost Oscillator
- ◆ +3.3 volt operation available
- ◆ SMD package Available
- ◆ Tape and reel available
- ◆ Excellent phase noise performance
- ◆ Low current drain
- ◆ Automatic insertion compatible
- ◆ Tighter stabilities available

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### Model: TT~VT1000/TT~1000S Specification

Parameter	Clipped Sine	HCMOS
Frequency Range	9.600MHz ~ 40.000MHz	
Operating Temperature Range	See Table	
vs. Temperature	See Table	
Frequency Stability	±0.3 ppm max.	
vs. Voltage (±5%)	±1.0 ppm/ Year	
vs. Aging	±0.3 ppm max.	
vs. Load (±10%)		
Supply Voltage	+3.3 // +5V ±5%	+3.3 // +5V ±5%
Current	9.6000 to 27.00MHz 2mA Max.// 3mA max.	20mA Max.// 25mA max.
Consumption	27.001 to 40.00MHz 3mA Max.// 4mA max.	35mA Max.// 40mA max.
Output Voltage Logic High (VOH)	0.8V p-p Min. (3.3V)	90% of V <sub>CC</sub>
(VOL)	1.0V p-p Min. (5.0V)	10% of V <sub>CC</sub>
Load	10K ohm / 10 pF	15 pF
Rise/ Fall Time	4ns max.// 5ns. max	
Duty Cycle	50 ±10%	
Frequency Adjustment Trimmer	±3.0 ppm Min.	
Frequency Deviation (VCTCXO only)	±5ppm to ±11.5 ppm over control voltage	
Control Voltage (VCTCXO only)	1.65V ±1.65V // 2.5V ±2.0V	



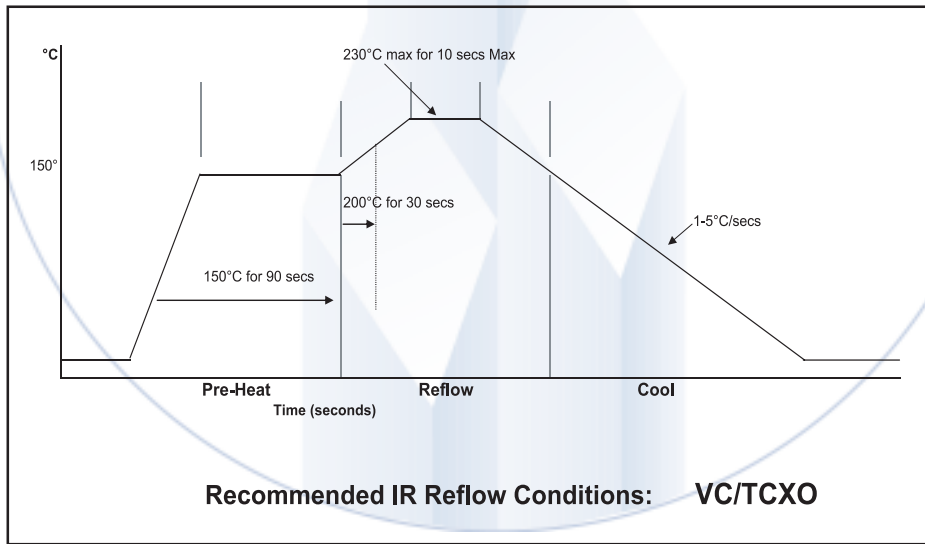
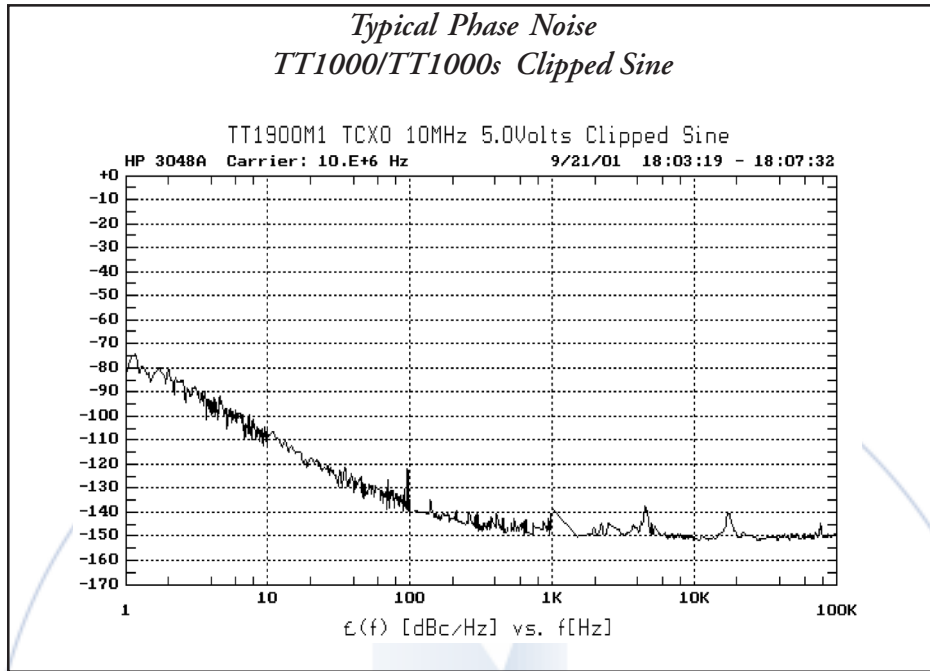
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Temperature	Stability (ppm)
0 to 55°C	±1.0, ±1.5, ±2.0, ±2.5 to ±5.0
-10 to 60°C	±1.5, ±2.0, ±2.5 to ±5.0
-20 to 70°C	±1.5, ±2.0, ±2.5 to ±5.0
-30 to 85°C	±1.5, ±2.0, ±2.5 to ±5.0
-40 to 85°C	±1.5, ±2.0, ±2.5 to ±5.0

Standard Frequencies
9.60MHz, 10.00MHz, 12.00MHz, 12.80MHz
13.00MHz, 14.40MHz, 15.36MHz, 19.20MHz
19.68MHz, 20.00MHz