



TT4000M

RoHS Complaint Standard

TCXOs, VCTCXOsTT~VT4000M Series TCXO/VCTCXO
CMOS, SMD**Features:**

◆ Up to 200.00MHz

◆ +2.8 volt operation available

Model: TT/VT4000M Series Specifications

Parameter	TCXO	VCTCXO
Frequency Range	32.678kHz or 1.00 ~ 200.00 MHz	
Operating Temperature Range	See Table	
Frequency Tolerance @ 25°C	± 2.0 ppm	
Frequency vs. Temperature	See Table	
Stability vs. Voltage Change	±2.0 ppm (±10% change)	
vs. Aging	±1.0 ppm/year	
vs. Load	±0.3 ppm max.	
vs. Reflow	±1.0 ppm max.	
Supply Voltage	+2.8 V, +3 V or +3.3 V ±5%	
Current Consumption	2 mA typ. (8.19 MHz) to 35 mA typ. (155.52 MHz)	
Output Level	Logic "1" = 90% V _{DD} min.; Logic "0" = 10% V _{DD} max.	
Output Load	15 pF	
Duty Cycle (Symmetry)	50% ±10% measured at 50% V _{DD}	
Rise and Fall Time	1.5 ns typ.; 2.0 ns max.	
Start up Time	5.0 mSec typ.; 10.0 mSec. max.	
Deviation (VCTCXO only)	N/A	±10 ppm typ.
Control Voltage (VCTCXO only)	N/A	+0.5 to +1.5 V

TCXO/VCTCXO: TT-VT4000M Series

TCXO/VCTCXO: TT-VT4000M Series

Temperature	Stability (ppm)
0 to 55°C	±0.5, ±1.0, ±1.5, ±2.0, ±2.5
-10 to 60°C	±1.0, ±1.5, ±2.0, ±2.5
-20 to 70°C	±1.0, ±1.5, ±2.0, ±2.5
-40 to 85°C	±1.0, ±1.5, ±2.0, ±2.5

Phase Noise (Typical)	
@10 Hz	-72 dBc/Hz
@100 Hz	-110 dBc/Hz
@1 kHz	-125 dBc/Hz
@10 kHz	-132 dBc/Hz
@100 kHz	-125 dBc/Hz

See Page 90 for Drawing

Tellurian® Technologies, Inc.

1801 Hicks Road • Rolling Meadows, IL 60008 • Tel 847-934-4141 • Fax 847-934-4175

• Email: info@telluriantech.com • www.telluriantech.com

TCXOs, VCTCXOs

TT-VT4000 Series TCXO/VCTCXO

TCXO-VCTCXO: TT-VT4000 Series

TCXO-VCTCXO: TT-VT4000 Series

