

TT2500

RoHS Compliant Standard

# TCXOs, VCTCXOs TT-VT2500 Series TCXO/VCTCXO Metal Can, SMD

**Features:**

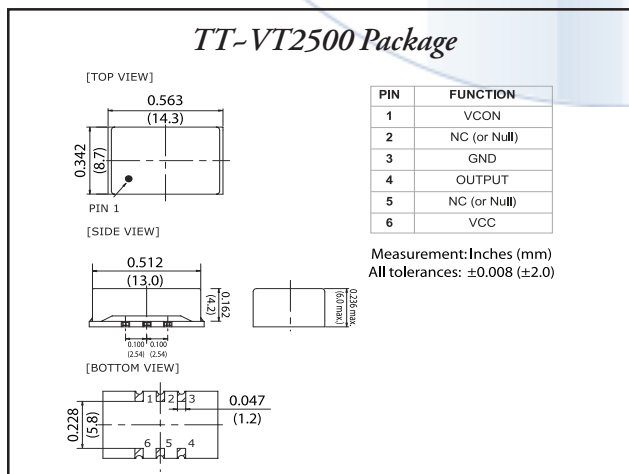
- ◆ +2.8 Volts available
- ◆ HCMOS available
- ◆ MD package
- ◆ Low current drain

**Model: TT-VT2500 Series Specification**

Parameter		Clipped Sine	HCMOS
Frequency Range		1.25 MHz ~ 36.00 MHz	
Operating Temperature Range		See Table	
	vs. Temperature	See Table	
Frequency Stability	vs. Voltage ( $\pm 5\%$ )	$\pm 0.2$ ppm max.	
	vs. Aging	$\pm 1.0$ ppm/ Year	
	vs. Load ( $\pm 10\%$ )	$\pm 0.2$ ppm max.	
Supply Voltage		2.8V, 3.3V // 5V $\pm 5\%$	2.8V, 3.3V // 5V $\pm 5\%$
Supply Current	1.25 to 10.00MHz	-----	10 mA // 7 mA max.
	10.00 to 15.00MHz	1.5mA Max.	15mA // 10 mA max.
	15.00 to 26.00MHz	2.0mA Max.	20mA // 15 mA max.
	26.00 to 36.00MHz	2.5mA Max.	25mA // 20 mA max.
Output Voltage Logic High (VOH)		0.8V p-p Min. (2.8, 3.3V)	90% of V <sub>CC</sub>
	(VOL)	1.0V p-p Min. (5.0V)	10% of V <sub>CC</sub>
Load		10K Ohms / 10 pF	15 pF
Startup Time			2 mSec max
Duty Cycle		50 $\pm 10\%$	
VC Input Impedance		100 k $\Omega$	
Frequency Deviation (VCTCXO only)		$\pm 5$ ppm to $\pm 25$ ppm over control voltage	
Control Voltage (VCTCXO only)		1.65V $\pm 1.65V$ // 2.5V $\pm 2.0V$	
Phase Noise @ 13.00 MHz	100 Hz	-115 dBc/Hz	
	1 kHz	-135 dBc/Hz	
	10 kHz	-148 dBc/Hz	

TCXO~VCTCXO: TT~VT2500 Series

TCXO/ VCTCXO: TT-VT2500 Series



Temperature	Stability (ppm)
0 to 55°C	$\pm 0.5, \pm 1.0, \pm 1.5, \pm 2.0, \pm 2.5$
-10 to 60°C	$\pm 1.0, \pm 1.5, \pm 2.0, \pm 2.5$ to $\pm 5.0$
-20 to 70°C	$\pm 1.0, \pm 1.5, \pm 2.0, \pm 2.5$ to $\pm 5.0$
-35 to 85°C	$\pm 1.0, \pm 2.0, \pm 2.5$ to $\pm 5.0$
-40 to 85°C	$\pm 2.0, \pm 2.5$ to $\pm 5.0$

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