



TT2500

**Features:**

- ◆ +2.8 Volts available
- ◆ SMD package

- ◆ HCMOS available
- ◆ Low current drain

TCXOs, VCTCXOs

TT~VT2500 Series TCXO/VCTCXO

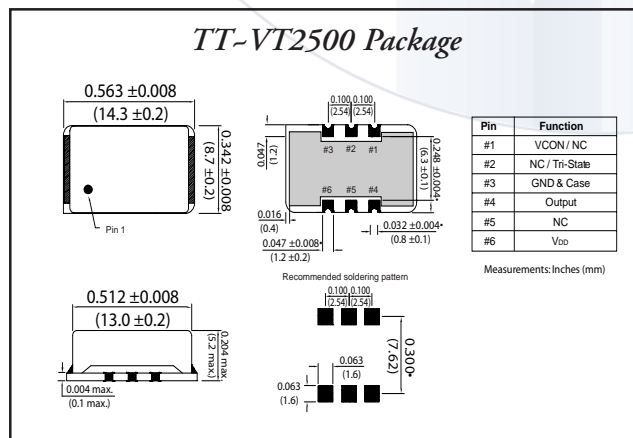
Metal Can, SMD

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 ($\pm 5\%$)	± 0.2 ppm max.	
	vs. Aging	± 1.0 ppm/ Year	
	vs. Load ($\pm 10\%$)	± 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 _{CC}
	(VOL)	1.0V p-p Min. (5.0V)	10% of V _{CC}
Load		10K Ohms / 10 pF	15 pF
Startup Time			2 mSec max
Duty Cycle		50 $\pm 10\%$	
VC Input Impedance		100 k Ω	
Frequency Deviation (VCTCXO only)		± 5 ppm to ± 25 ppm over control voltage	
Control Voltage (VCTCXO only)		1.65V ± 1.65 V // 2.5V ± 2.0 V	
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 ± 5.0
-20 to 70°C	$\pm 1.0, \pm 1.5, \pm 2.0, \pm 2.5$ to ± 5.0
-35 to 85°C	$\pm 1.0, \pm 2.0, \pm 2.5$ to ± 5.0
-40 to 85°C	$\pm 2.0, \pm 2.5$ to ± 5.0

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TCXOs, VCTCXOs

**TT-VT2500 Series TCXO/VCTCXO
Metal Can, SMD**



TT2500



Features:

- ◆ +3.3 Volts available
- ◆ SMD package

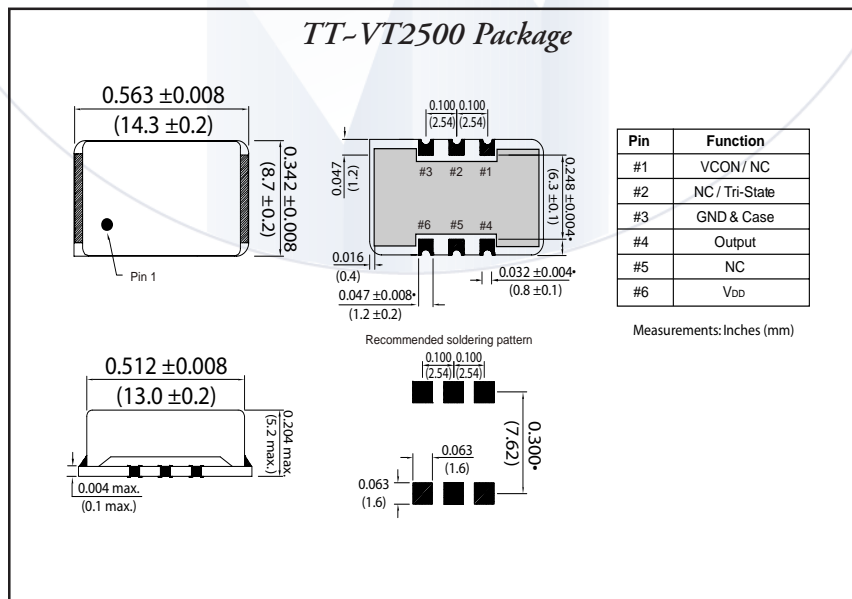
- ◆ HCMOS available
- ◆ Excellent Phase Noise

Model: TT-VT2500 Series Specification

Parameter			
Frequency Range		100.00 MHz	200.00 MHz
Operating Temperature Range		-40 to 85°C	
vs. Temperature		±2.5 ppm	
Frequency Stability	vs. Voltage (±5%)	±0.3 ppm max.	
	vs. Aging	±1.0 ppm/ Year; ±7.0 over 10 years	
	vs. Load (±10%)	±0.3 ppm max.	
Supply Voltage		3.3V ±5%	
Supply Current		30 mA max.	50 mA max.
Output Waveform		HCMOS	
Output Level		90% // 10%	
Load		15 pF	
Symmetry		40/60	
Frequency Deviation (VCTCXO only)		±5 ppm to ±25 ppm over control voltage	
Control Voltage (VCTCXO only)		1.65V ±1.65V	
Phase Noise	10 Hz	-80 dBc/Hz	-70 dBc/Hz
	100 Hz	-110 dBc/Hz	-100 dBc/Hz
	1 kHz	-140 dBc/Hz	-130 dBc/Hz
	10 kHz	-150 dBc/Hz	-140 dBc/Hz

TCXO-VCTCXO: TT-VT2500 Series

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