



TT3000

# TCXOs, VCTCXOs

## TT~VT3000 Series TCXO/VCTCXO

### Ceramic, SMD



**Features:**

- ◆ Up to 40.00 MHz
- ◆ Ultra-miniature SMD package
- ◆ Stratum 3 ( $\pm 4.6$  ppm Overall)
- ◆ Tri-Stste Enable

**Model: TT/VT3000 Series Specification**

Parameter	Clipped Sine	HCMOS
Frequency Range	10.00MHz to 40.00MHz	5.00 MHz to 26.00 MHz
Operating Temperature Range	See Table	
Frequency Tolerance at 25°C	$\pm 0.5$ ppm	
Frequency Stability		
vs. Temperature	See Table	
vs. Voltage ( $\pm 5\%$ )	$\pm 0.2$ ppm max.	
vs. Aging	$\pm 1.0$ ppm/ Year	
vs. Load ( $\pm 10\%$ )	$\pm 0.3$ ppm max.	
Supply Voltage	2.8 V (Clipped Only) 3.0V, 3.3V, 5.0 V	
Current Consumption		
10.00 MHz to 15.00 MHz	1.5 mA max.	6.0 mA max.
15.00 MHz to 26.00 MHz	2.0 mA max.	
26.00 MHz to 40.00 MHz	2.5 mA max.	
Output Voltage	0.8 V p-p min.	1,0 V p-p min.
Load	10 kOhms//10pF	
Rise/ Fall Time	n/a	4 ns max.   5 ns. max.
Duty Cycle	n/a	
Tristate	Enable= 70% V Disable= 30% V	
VC Input Impedance	1.0 MOHms	100 kOhms
Frequency Adjustment Trimmer (1)	$\pm 3.0$ ppm Min.	
Frequency Deviation (VCTCXO only)	$\pm 5$ ppm to $\pm 14$ ppm	
Control Voltage (VCTCXO only)	1.65V $\pm$ 1.65V (3.3 V) // 2.5V $\pm$ 2.0V (5.0 V)	

TCXO/VCTCXO: TT-VT3000 Series

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TT/VT3000 (Clipped Sine) Package	TT/VT3000 (HCMOS) Package																						
<p>Measurements: Inches (mm)</p> <table border="1" style="font-size: small;"> <tr><th>PIN</th><th>Function</th></tr> <tr><td>#1</td><td>GND/VC</td></tr> <tr><td>#2</td><td>GND</td></tr> <tr><td>#3</td><td>Output</td></tr> <tr><td>#4</td><td>VDD</td></tr> </table> <p style="font-size: x-small;">All other pins are NC</p>	PIN	Function	#1	GND/VC	#2	GND	#3	Output	#4	VDD	<p style="text-align: right; font-size: x-small;">Recommended Soldering Pattern</p> <table border="1" style="font-size: small;"> <tr><th>PIN</th><th>Function</th></tr> <tr><td>1</td><td>GND/Vcon</td></tr> <tr><td>5</td><td>GND</td></tr> <tr><td>6</td><td>Output</td></tr> <tr><td>9</td><td>Tri-State</td></tr> <tr><td>10</td><td>VDD</td></tr> </table> <p style="font-size: x-small;">All other pins are NC</p>	PIN	Function	1	GND/Vcon	5	GND	6	Output	9	Tri-State	10	VDD
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Temperature
0 to 70°C
-10 to 60°C
-20 to 70°C
-30 to 85°C
-40 to 85°C