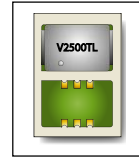


# V2500TL

## Voltage Controlled Crystal Oscillator



### FEATURES:

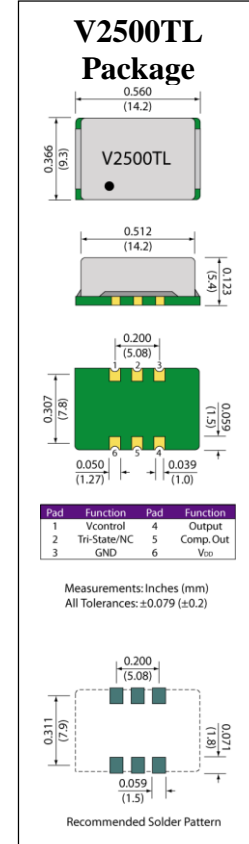
LVDS

Low Jitter

Ceramic Package

14.2 x 9.3 x 5.4 mm

Parameter	Unit	Min.	Max.
Frequency Range	MHz	1.5	200
Frequency Stability	ppm	See Table	
Storage Temperature Range	°C	-55	+125
Voltage	V	2.5, 3.3 ±5%	
Current Consumption			
1.50 to 65.00 MHz	mA	-	45
>65.00 to 200.00 MHz	mA	-	80
Output Waveform		LVDS	
Output Load	Ohms	-	100
Output Voltage Logic High (VOH)	V	-	1.6
Output Voltage Logic Low (VOL)	V	0.9	-
Linearity		-	10%
Transition Time (Rise and Fall)	nSec	-	1
Modulation Bandwidth	kHz	25	-
Input Impedance	kOhms	50	-
Duty Cycle		45/55%	
Tri-state			
Enable	V	0.7	-
Disable	V	-	0.3
Frequency Deviation	ppm	±50	-
Start-up Time	mSec	-	3
RMS Phase Jitter (Integrated 12kHz to 20MHz)			
1.50 to 100.00 MHz	pSec	-	1
>100.00 to 125.00 MHz	pSec	-	0.7
>125.00 MHz to 150.00 MHz	pSec	-	0.5
>150.00 to 200.00 MHz	pSec	-	0.3
Phase Noise @ 1 kHz	dBc/Hz	-	-110



Frequency Stability is inclusive of Operating Temperature Range, Supply Voltage, Aging, Current and Load.

Control Voltage: 1.25 ±1.05V for 2.5V; 1.65±1.35V for 3.3V.

### Frequency Stability

Temperature	Stability (ppm)
-10 to 60°C	±25, ±50
-20 to 70°C	±25, ±50
-40 to 85°C	±50



### Environmental

Terminal Material	Cu
Terminal Plating	Au
REACH Compliant	Yes
RoHS Compliant	Yes
RoHS Exemptions	No
Re-flow Temp. Max.	260°C
MSL	1

Example Part Number: V2500TL-18-A-27-24M576

V2500TL	1	2	3	4
	Voltage	Stability	Temp. Range	Frequency
	33= 3.3 V	A= ±50	16= -10 to 60°C	Frequency in MHz
	25= 2.5V	B= ±25	27= -20 to 70°C	i.e. 24M576
			48= -40 to 85°C	use M for decimal point