

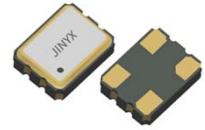
CRYSTAL OSCILLATOR



SERIES TV32 , SMD TEMPERATURE COMPENSATED QUARTZ CRYSTAL OSCILLATORS

Features

- .Temperature Stability: $\pm 0.5 \text{ ppm} \sim \pm 2.0 \text{ ppm}$.
- . Operating Temperature Range: $- 30 \sim 85 \text{ }^\circ\text{C}$.
- .Supply Voltage: $1.8 \text{ V} \sim 3.3 \text{ V}$.
- .Applications: GPS, WiMAX, Cellular and Wireless Communications.
- .RoHS Compliant / Pb Free.



Electrical Specifications

Item/Type		TV32(TCXO)	
Output Type		Clipped Sinewave	
Output Load		10K Ω // 10 pF (+/-10%)	
Oscillation Mode		Fundamental	
Supply Voltage		1.8 ~ 3.3 V (+/-0.5%)	
Frequency Range		10 ~ 54 MHz	
Clipped Sinewave Output Voltage		0.8 Vp-p Min	
Frequency Stability	Vs. Temperature (- 30 ~ + 85 $^\circ\text{C}$)	$\pm 0.5 \text{ ppm}$	
	Vs. Load (Load varies $\pm 10 \%$)	$\pm 0.2 \text{ ppm Max.}$	
	Vs. Supply Voltage (Vcc =1.8-3.3V+/-0.5)	$\pm 0.2 \text{ ppm Max.}$	
Frequency Tolerance	at 25 $^\circ\text{C}$ after 2 Reflows with Typical Applied to Auto Frequency Control Pin	$\pm 1.5 \text{ ppm Max.}$	
Storage Temperature Range		- 30 ~ + 85 $^\circ\text{C}$	
Harmonics		-5 dBc Max	
Supply Current		1.5 mA Max	
Start-up Time		2 ms Max	
SSB Phase Noise		Relative to f0 level offset 1Khz	-125 dBc/hz Max
Aging (at 25 $^\circ\text{C}$)		$\pm 1 \text{ ppm / year Max}$	

Dimensions

