Temperature Compensated Crystal Oscillator

- Excellent frequency stability •
- Miniature size, reflow soldering available
- Clipped sine output, tight specifications and an internal trimmer
- Suited for communications equipment, cellular radios, and instrumentation.

Specifications:

Frequency Range:	10.000 MHz ~ 20.0000 MHz	
Operating Temperature: Storage Temperature:	$0^{\circ}C \sim +55^{\circ}C - A$ -10^{\circ}C ~ +60^{\circ}C - B -20^{\circ}C ~ +70^{\circ}C - C -30^{\circ}C ~ +75^{\circ}C - D -40^{\circ}C ~ +85^{\circ}C - U -40^{\circ}C ~ +85^{\circ}C	
Frequency Stability:		-
Vs. Temperature:	± 5.0 ppm ± 3.0 ppm ± 2.5 ppm	
Vs. Input Voltage:		
Vs. Load:	\pm 0.2 ppm at load \pm 10%	76
Aging:	\pm 1.0 ppm max first year	
Pulling Range:		
Vss+0.5V ~ Vcc	–0.5V:5 ~ 16 ppm/V (optional)	# 8 # 5
Control Slope:	Positive	
Start-Up Time:	8 ms max	-
Output Waveform:	Clipped Sine, $10K\Omega//10pF$	-
Output Voltage:	0.8 Vp-p min.	Pin Configurations
2 nd Harmonics:	-15.0 dBc max.	#1 VC or NC
SSB Phase Noise:	-125 dBc/Hz (offset 1KHz)	#4 Ground #5 Output
Frequency Adjustment:	\pm 3.0 ppm min with internal trimmer	#8 Supply Vod
Supply Voltage:	+3.3 VDC (± 0.2%) +5.0 VDC (± 0.3%) - P	- All dimensions are
Supply Current:	2.0 mA max	Ordering Information

Note:

- Other frequencies, stabilities, and operating temperature ranges available. 1. Consult VTC Support for specific requirements.
- Not all combinations of the above, stabilities, and temperature ranges are 2. available. Consult VTC Support if your requirement is not standard.
- 3. All specifications subject to change without notice.

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VANLONG

TO519

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Product name + Operating Temperature + Stability + Frequency (MHz) + Other Specification Code.

i.e. TO519B2.5-8.0MHz ±2.5ppm/-10°C~+60°C/3.3V Or TO519D2.5P-8.0MHz ±2.5ppm/-30°C~+75°C/5.0V

