Temperature Compensated Crystal Oscillator

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

Specifications:		то-с
Frequency Range:	10.000 MHz ~ 20.0000 MHz	
Operating Temperature:	$0^{\circ}C \sim +55^{\circ}C - A$ -10°C ~ +60°C - B -20°C ~ +70°C - C -30°C ~ +75°C - D 0°C ~ +85°C - E	
Storage Temperature:	-40°C ~ +85°C	-
Frequency Stability: Vs. Temperature:	± 5.0 ppm ± 3.0 ppm ± 2.5 ppm	
Vs. Input Voltage: Vs. Load: Aging:	\pm 0.2 ppm at voltage \pm 5% \pm 0.2 ppm at load \pm 10% \pm 2.0 ppm max first year	$\begin{array}{c} \underline{\bullet}_{13} \\ \underline{\bullet}_{13} \\$
Pulling Range:		
Vss+0.5V ~ Vcc –0	.5V:5 ~ 15 ppm/V (optional)	
Control Slope:	Positive	
Start-Up Time:	2 ms (typical)	-
Output Waveform:	Clipped Sine, $10K\Omega//10pF$	Pin Configurations
Output Voltage:	0.8 Vp-p min.	#1 VC or NC
2 nd Harmonics:	-15.0 dBc max.	- #2 Ground #3 Output
SSB Phase Noise:	-125 dBc/Hz (offset 1KHz)	#4 Supply Vpb
Frequency Adjustment:	± 3.0 ppm min with internal trimmer	
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.



re in mm

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

i.e. TO520B2.5-8.0MHz ±2.5ppm/-10°C~+60°C/3.3V Or TO520D2.5P-8.0MHz ±2.5ppm/-30°C~+75°C/5.0V

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TO520

