

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.

TO520

Specifications:

Frequency Range: 10.000 MHz ~ 26.0000 MHz

Operating Temperature:

0°C ~ +55°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:	± 2.5 ppm ~ ± 5.0 ppm
Vs. Input Voltage:	± 0.2 ppm at voltage ± 5%
Vs. Load:	± 0.2 ppm at load ± 10%
Aging:	± 1.0 ppm max first year

Supply Current:

10 MHz ~ 15 MHz	1.5 mA max
15 MHz ~ 26 MHz	2.0 mA max

Pulling Range:

V_{SS}+0.5V ~ V_{CC} -0.5V: 5 ~ 15 ppm/V (optional)
Control Slope: Positive

Start-Up Time: 2 ms (typical)

Output Waveform: Clipped Sine, 10KΩ//10pF

Output Voltage: 0.8 V_{p-p} min.

SSB Phase Noise:

- 110 dBc/Hz (offset 100Hz)
- 125dBc/Hz (offset 1KHz)
- 130dBc/Hz (offset 10KHz)

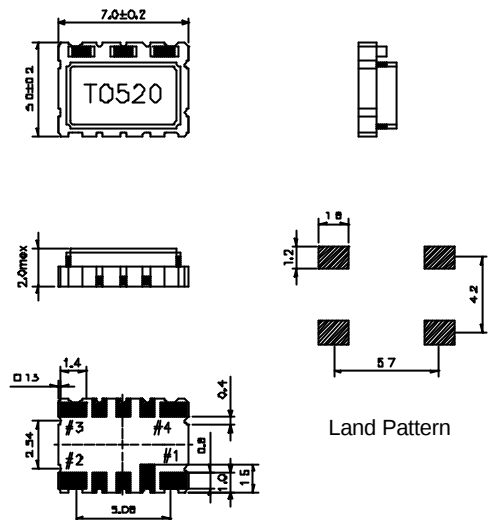
Supply Voltage:

+3.3 VDC (± 0.2%)	
+5.0 VDC (± 0.3%)	- P

Note:

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

TO-C



Pin	Configurations
#1	VC or NC
#2	Ground
#3	Output
#4	Supply V _{DD}

All dimensions are in mm

Ordering Information

Product name + Operating Temperature + Stability + Pulling Range + Frequency (MHz)
 i.e. TO520B2.5-10.0MHZ ±2.5ppm/-10°C~+60°C/3.3V
 Or TO520D2.5P-10.0MHZ ±2.5ppm/-30°C~+75°C/5.0V