Temperature Compensated Crystal Oscillator

- Excellent frequency stability
- Small size SMD, reflow soldering available
- Clipped-sine/CMOS output, tight specifications
- Suited for communications equipment, cellular radios, and instrumentation.

TO518

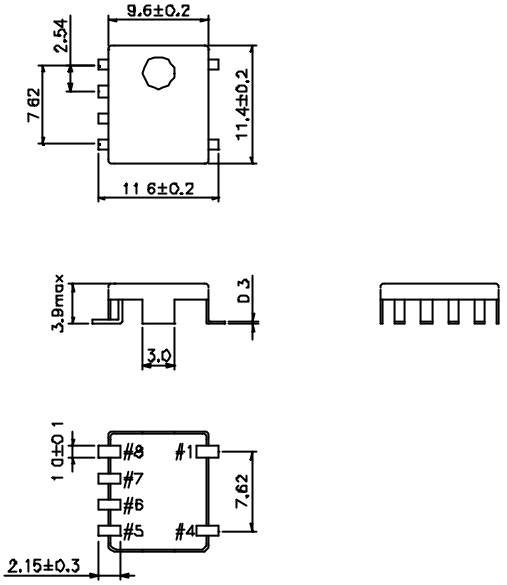
Specifications:

Frequency Range:	10.000 MHz ~ 40.0000 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
	-40°C ~ +85°C	- U
Storage Temperature:	-40°C ~ +85°C	
Frequency Stability:		
Vs. Temperature:	± 5.0 ppm	
	± 3.0 ppm	
	± 2.5 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	
Pulling Range:		
Vss+0.5V ~ Vcc –0.5V:	5 ~ 16 ppm/V (optional)	
Control Slope:	Positive	
Start-Up Time:	8 ms max	
Output Waveform:	Clipped-Sine/10KΩ//10pF	- S
	CMOS/15pF/50±5%	- C
Output Voltage:	0.8 Vp-p min.	
SSB Phase Noise:	-135 dBc/Hz (offset 1KHz)	
Frequency Adjustment:	± 3.0 ppm min with internal trimmer	
Supply Voltage:	+3.3 VDC (± 0.2%)	
	+5.0 VDC (± 0.3%)	- P
Supply Current:	2.5 mA max	

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-J



Pin	Configurations
#1,4,6	Ground
#5	Output
#7	NC or Vcon
#8	Supply V_{DD}

All dimensions are in mm

Ordering Information

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

i.e. TO518B2.5S-8.0MHz ±2.5ppm/-10°C~+60°C/3.3V

Or TO518D2.5CP-8.0MHz ±2.5ppm/-30°C~+75°C/5.0V