Voltage Controlled Temperature Compensated Crystal Oscillator

TO502V

- Excellent frequency stability
- Wide operating temperature range
- Clipped sine output, tight specifications and an internal trimmer
- Suited for communications equipment, cellular radios, and instrumentation.

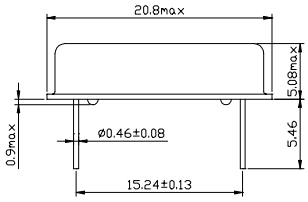
Specifications:

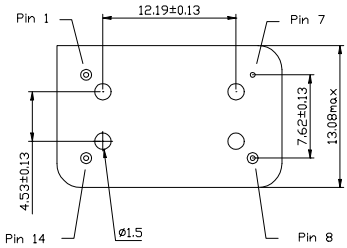
Frequency Range:	5.0 MHz ~ 105.0 MHz	
Operating Temperature:	0°C ~ +50°C	- A
	-10°C ~ +60°C	- B
	-20°C ~ +70°C	- C
	-30°C ~ +75°C	- D
	-40°C ~ +85°C	- E
Storage Temperature:	-40°C ~ +85°C	
Frequency Stability:		
Vs. Temperature:	± 5.0 ppm	
	± 3.0 ppm	
	± 2.5 ppm	
	± 2.0 ppm	
	± 1.5 ppm	
	± 1.0 ppm	
Vs. Input Voltage:	± 0.3 ppm at voltage ± 5%	
Vs. Load:	± 0.2 ppm at load ± 10%	
Vs. Shipping:	± 0.5 ppm at 25°C ± 2°C	
Aging:	± 1.0 ppm max first year	
Output Level:	1.0 Vp-p min	
Output Waveform:	Clipped-Sine	
Output Load:	10 KΩ // 10 pF	
Frequency Adjustment:	± 3.0 ppm min with internal trimmer	
Supply Voltage:	+3.0 VDC (± 0.2%)	
	+5.0 VDC (± 0.3%)	- P
Supply Current:	3.0 mA max	
Voltage Controlled Range:	5 ~ ± 80 ppm (2.5V ± 2V typ.)	

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.

Full-Size DIP-14





Pin	Configurations
1	VC or NG
7	Ground
8	Output
14	Supply V_{DD}

All dimensions are in mm

Ordering Information

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

i.e. TO502VB2.0-8.0MHz ±2.0ppm, -10°C~+60°C, 3.0V

Or TO502VB1.5P-8.0MHz ±1.5ppm, -10°C~+60°C, 5.0V

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