

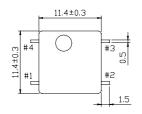
Voltage Controlled Temperature Compensated Crystal Oscillator

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

TO511V

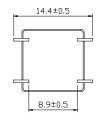
Specifications:	
Frequency Range:	1.2 MHz ~ 45.0 MHz
Operating Temperature:	0°C ~ +50°C - A -10°C ~ +60°C - B -20°C ~ +70°C - C -30°C ~ +75°C - D -40°C ~ +85°C - E
Storage Temperature:	-40°C ~ +85°C
Vs. Input Voltage: Vs. Load: Vs. Shipping: Aging:	± 5.0 ppm ± 3.0 ppm ± 2.5 ppm ± 2.0 ppm ± 1.5 ppm ± 1.0 ppm ± 0.3 ppm at voltage ± 5% ± 0.2 ppm at load ± 10% ± 0.5 ppm at 25°C ± 2°C ± 1.0 ppm max first year
Output Level:	"0" level = 0.5V "1" level = VDD -10% min
Output Waveform:	HCMOS
Output Load:	30 pF HCMOS / 5 TTL
Duty Cycle:	50% (±5%)
Rise / Fall Time:	10 ns max
Frequency Adjustment:	± 3.0 ppm min with internal trimmer
Supply Voltage:	+3.0 VDC (± 0.2%) +5.0 VDC (± 0.3%) - P
Supply Current:	20 mA max
Voltage Controlled Range:	5 ~ ± 80 ppm (2.5V ± 2V typ.)

ТО-Е









Pin	Configurations
1	Supply VDD
2	VC or NG
3	Ground
4	Output

All dimensions are in mm

Ordering Information

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

i.e. TO511VB2.0-8.0MHz ±2.0ppm, -10°C~+60°C, 3.0V Or TO511VB1.5P-8.0MHz ±1.5ppm, -10°C~+60°C, 5.0V

Note:

- Other frequencies, stabilities, and operating temperature ranges available. 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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