Temperature Compensated Crystal Oscillator

TO501

- Excellent frequency stability
- Wide operating temperature range
- Clipped-sine/CMOS/TTL output, tight specifications
- 20.4x12.8x7.8mm standard metal package, case ground for minimizing RF radiation
- Gull-Wings available for SMT.

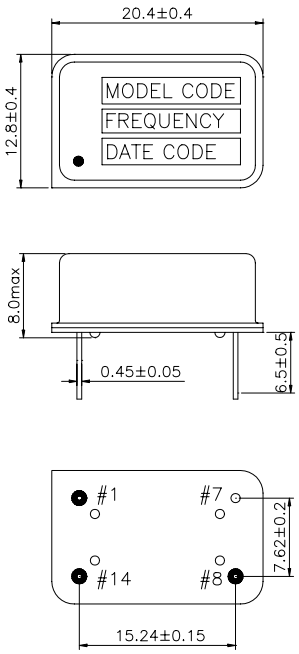
Specifications:

Frequency Range:	1.5 MHz ~ 30.0 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	- L
Storage Temperature:	-40°C ~ +85°C	
Frequency Stability:		
Vs. Temperature:	± 0.5 ~ ± 5.0 ppm	
Vs. Input Voltage:	± 0.3 ppm at voltage ± 5%	
Vs. Load:	± 0.2 ppm at load ± 10%	
Aging:	± 1.0 ppm max first year	
Pulling Range:	± 5 ~ ± 15 ppm (optional) (None for TCXO)	
Output Waveform: & Output Load:	Clipped-Sine/10KΩ/10pF	- S
	TTL/10LSTTL/50±10%	- T
	CMOS/15pF/50±5%	- C
Supply Current:		
Clipped-Sine wave:	9.6 MHz ~ 20.0 MHz	2.0mA
	20.0 MHz ~ 30.0 MHz	2.5mA
TTL/COMS:	1.5 MHz ~ 20.0 MHz	20mA
	20.0 MHz ~ 30.0 MHz	25mA
Supply Voltage:	+3.3 VDC (± 0.2%)	
	+5.0 VDC (± 0.3%)	- P
Phase Noise:	-110dBc/Hz at 100Hz	
	-135dBc/Hz at 1KHz	
	-145dBc/Hz at 100KHz	
Rise/Fall Time:	5ns max (TTL/CMOS)	

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-F



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

All dimensions are in mm

Ordering Information

Product name + Operating Temperature + Stability + Output Wave + Pulling Range + Frequency (MHz).

i.e. TO501B2.0S-8.0MHz ±2.0ppm/-10°C~+60°C/3.3V

Or TO501B1.5CP-8.0MHz ±1.5ppm/-10°C~+60°C/5.0V

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