

Voltage Controlled Temperature Compensated Crystal Oscillator

TO508V

- Excellent frequency stability
- Wide operating temperature range
- Clipped sine output, tight specifications and an internal trimmer
- Internal or external voltage control available

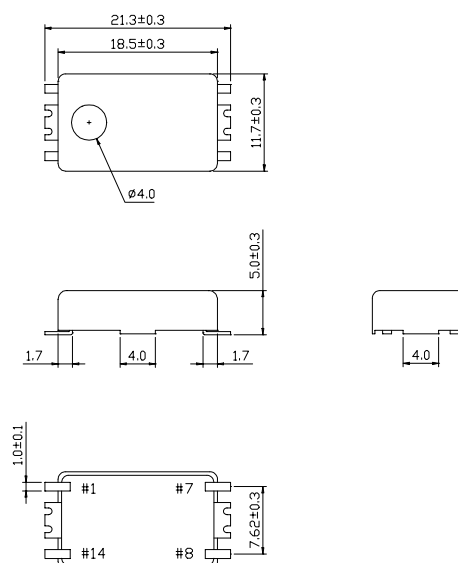
Specifications:

| | | |
|---------------------------|-------------------------------------|-----|
| Frequency Range: | 5.0 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 | |
| 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.

TO-D



| Pin | Configurations |
|-----|----------------|
| 1 | VC or NG |
| 7 | Ground |
| 8 | Output |
| 14 | Supply VDD |

All dimensions are in mm

Ordering Information

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

i.e. TO508VB2.0-8.0MHz ±2.0ppm, -10°C~+60°C, 3.0V
or TO508VB1.5P-8.0MHz ±1.5ppm, -10°C~+60°C, 5.0V