

PRODUKT-INFO

TXO-503 • VTXO-503

SMD Temperature Compensated &
Voltage Controlled Temperature Compensated Crystal Oscillators

FEATURES

1. High stability.
2. Low supply current.
3. Low phase noise.
4. Clipped sine output.
5. Metal cap / ceramic base.
6. Seam welding.



Actual Size

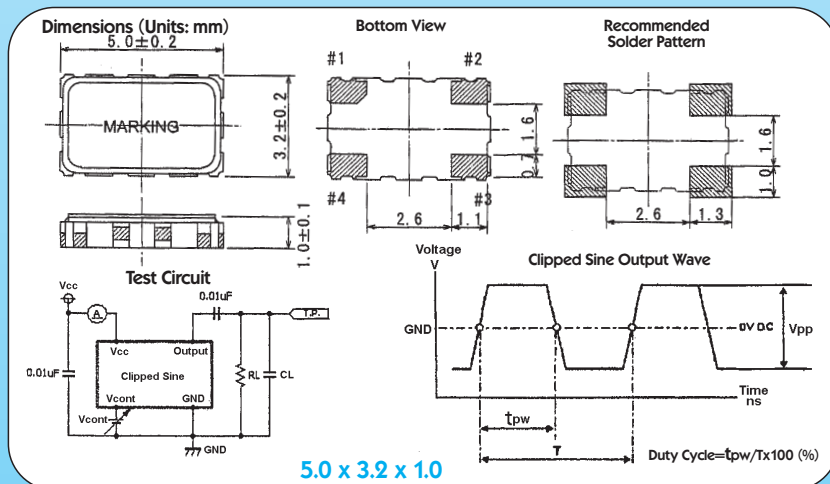


APPLICATION

For Mobile GPS, etc.

ELECTRICAL SPECIFICATIONS		
Model	TXO-503	VTXO-503
Frequency Range	6.0 MHz ~ 45.0 MHz	
Nominal Frequency	8, 10, 12, 12.8, 13, 14.4, 16.368, 19.2, 19.8, 20, 24.5535, 56, 40 MHz	
Frequency Stability	Tolerance at +25°C: ±0.5 ppm Temperature +25°C basis: ±2.5 ppm at -30°C to +75°C Supply Voltage Stability: ±0.2 ppm V _{CC} ±5% Load Stability: ±0.2 ppm ZL ±10%	
Storage Temperature Range	-40°C to +85°C	
Supply Voltage (V _{DD})	+2.5V, +2.8V, +3.0V, +3.3V, +5.0V DC ±5%	
External Control Function	Frequency Tuning Range External Control Voltage Input Impedance	±8.0 ppm min. positive +1.5V ±1.0V DC 500 kΩ min., 650 kΩ typical
Supply Current	6.0 ~ 20.0 MHz 20.001 ~ 32.0 MHz 32.001 ~ 45.0 MHz	1.5 mA max. 2.0 mA max. 2.5 mA max.
Output Load	10 kΩ / 10 pF, incl. Probe- and Fixture stray capacitance	
Output Voltage	0.8V _{p-p} min.	
Output Waveform	Clipped Sine Wave (DC - coupled output)	
Phase Noise	-135dBc typical at 1kHz offset	
Aging (at +25°C) first year	±1.0 ppm / year max.	

OPTIONS: Pin 1 TCXO: V Control: 0.0V (GND)
Pin 1 VC-TXO: +1.5V ±1.0V



Terminal	Connection
#1	TCXO VC-TXO
#2	GND V Control
#3	N.C.
#4	GND
#5	OUTPUT
#6	N.C.
#6	V _{CC}

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All specifications subject to change without notice.