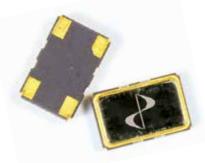
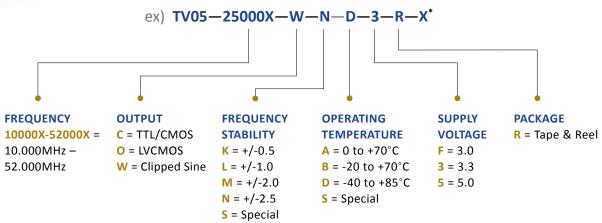
TV05-Series Specifications





5.00L x 3.20W x 1.50H (mm)

PDI *TV05-Series* Voltage Controled Temperature Compensated Crystal Oscillator (VCTCXO) ensures a precise frequency under demanding circumstances. With ultra-low phase noise, low jitter, and excellent performance in high vibration environments this VCTCXO is available, in both standard and custom frequencies. PDI provides fast sampling for your proto-typing needs, mass production capability, and competitive pricing.



* - for standard or assigned for customization.

Parameters		Clipped Sinewave	CMOS	Units
Frequency Range *1		10.000000 to 52.000000	10.000000 to 52.000000	MHz
Frequency Stability*1	vs Temperature (Max.)	Per Option	Per Option	ppm
	vs Supply Voltage (Max.)	±0.2	±0.2	
	vs Load (Max.)	±0.2	±0.2	
	vs Aging (Max 1st year)	±1	±1	
	Calibration (@ +25°C) 1 Hour After Refow (Max)	±2	±2	
Frequency Adjustment (Positive Slope)	Control Voltage Range	10 to 90	10 to 90	%Vcc
	Pull Range	±5 to ±15	±5 to ±15	ppm
	Linearity (Max)	10	10	%
	Input Impedance (Min)	100K	100K	Ω
	Modulation Bandwidth (@-3dB)	10.0	10.0	KHz
Temperature Range *1	Operating	Per Option	Per Option	°C
	Storage	-55 to +125	-55 to +125	
Supply Voltage *1		Per Option	Per Option	V
Supply Current (Max)		5.0	10.0	mA
Waveform		Clipped Sinewave 0.8V Peak to Peak Min	CMOS	
Output	Low Level Output Voltage (Max)	N/A	10	%Vcc
	High Level output Voltage (Min)	N/A	90	%Vcc
	Duty Cycle (Max)	N/A	40/60	%
Load		10 kΩ//10pF	15pF	
Start Up Time (Max)		3.0	3.0	ms
Phase Noise (Typical For 26.0 MHz)	@ 100 Hz	-110	-110	dBc/Hz
	@ 1 kHz	-130	-130	
	@ 10 kHz	-145	-145	
	@ 100 kHz	-145	-145	

^{*1 -} Not all Frequency/Temperature/Voltage combinations are available.

REV: NA SIZE: A CAGE: 0S4G1 1 of 3	
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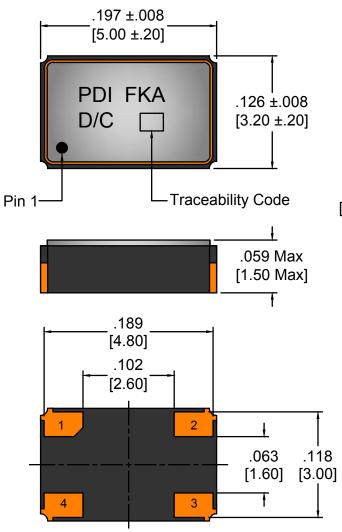


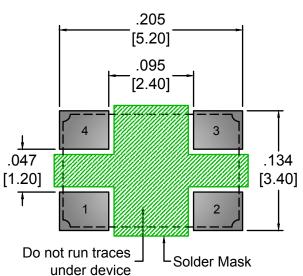
TV05-Series 5.00 x 3.20 x 1.50 (mm)

PACKAGE DIMENSIONS

Decimal XXX = \pm .008, XX = \pm .02 Metric [XXX = \pm .20], [XX = \pm .50]

PIN	CONNECTION
1	Voltage Control
2	Ground/Case
3	Output
4	Supply Voltage





Recommended Land Pattern (Top View)







NOTES:

Terminals are Au.

Other options are available, please consult factory.

All product is supplied *RoHS* and *REACH* compliant.

Product can be supplied on Tape and Reel, on reels of 1,000 units.

Specifications subject to change without notice, last updated 4/1/13.

REV: NA SIZE: A CAGE: 0S4G1	2 of 3
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TV05-Series 5.00 x 3.20 x 1.50 (mm)

- 1. Material: Black Conductive Polystyrene or equivalent.
- **2**. 10 Sprocket Hole pitch cumulative tolerance of \pm .008.
- **3**. Camber in compliance with EIA 481.
- 4. Empty pockets: Trailing end (Minimum) 200 mm. and Leading end (Minimum) 400 mm.
- 5. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.

