

## **TV02-Series Specifications**



#### 2.50L x 2.00W x 0.80H (mm)

PDI *TV02-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.

Parameter		Supply Voltage <sup>*1</sup> Range (±5%)	Units
		1.8 to 3.3	V
Frequency Range <sup>*1</sup>		10.000000 to 52.000000	MHz
Frequency Stability *1	vs Temperature (Max.)	Per Option	ppm
	vs Supply Voltage (Max.)	±0.2	
	vs Load (Max.)	±0.2	
	vs Aging (Max. 1st year)	±1	
	Calibration (@ +25°C) 1 Hour After Refow (Max.)	±2	
Frequency Adjustment (Positive Slope)	Control Voltage Range	10 to 90	%Vcc
	Pull Range	±5 to ±15	ppm
	Linearity (Max)	10	%
	Input Impedance (Min)	500K	Ω
	Modulation Bandwidth (@-3dB)	10.0	KHz
Temperature Range *1	Operating	Per Option	°C
	Storage	-55 to +125	
Supply Current (Maximum)	10.00000 to 25.999999 MHz	2.0	mA
	26.000000 to 52.000000 MHz	2.5	
Waveform		Clipped Sinewave	
Output (Minimum)	Peak to Peak	0.8	V
Load		10 kΩ//10pF	
Start Up Time (Maximum)		2.0	ms
Phase Noise (Typical) (For 26.0 MHz)	@ 100 Hz	-110	dBc/Hz
	@ 1 kHz	-132	
	@ 10 kHz	-147	
	@ 100KHz	-151	

\*1 - Not all Frequency/Temperature/Voltage combinations are available.

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#### **PACKAGE DIMENSIONS**

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

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





SIZE: A

CAGE: 0S4G1

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REV: NA

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- 1. Material: Black Conductive Polystyrene or equivalent.
- ${\bf 2}.$  10 Sprocket Hole pitch cumulative tolerance of  $\pm.008.$
- ${\bf 3}.$  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.

