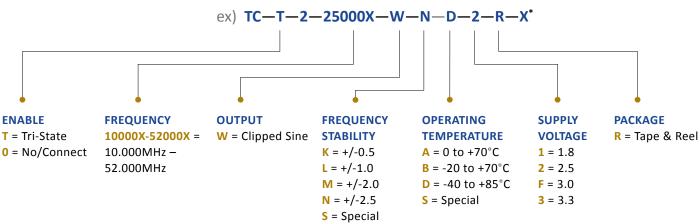
## TC02-Series Specifications





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

PDI *TCO2-Series* Temperature Compensated Crystal Oscillator (TCXO) ensures a precise frequency under demanding circumstances. With ultra-low phase noise, low jitter, and excellent performance in high vibration environments this TCXO 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 *1 Range (±5%)	Units	
		1.8 to 3.3	V	
Frequency Range *1		10.000000 to 52.000000	MHz	
Frequency Stability *1	vs Temperature (Max.)	Per Option		
	vs Supply Voltage (Max.)	±0.2	ppm	
	vs Load (Max.)	±0.2		
	vs Aging (Max. 1st year)	±1		
	Calibration (@ +25°C)			
	1 Hour After Refow (Max.)	±2		
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	- 10 /11	
	@ 1 kHz	-132		
	@ 10 kHz	-147	dBc/Hz	
	@ 100KHz	-151		

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

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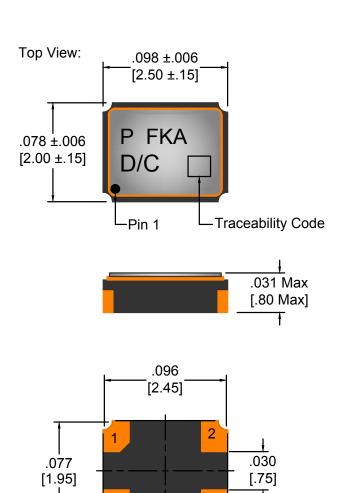


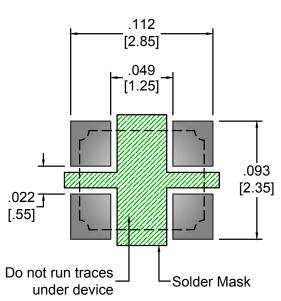
## TC02-Series 2.50 x 2.00 x 0.80 (mm)

### PACKAGE DIMENSIONS

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

PIN	CONNECTION
1	Tri-State or No Connect
2	Ground/Case
3	Output
4	Supply Voltage





Recommended Land Pattern (Top View)



**Bottom View:** 



.057 [1.45]

4



#### 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



# TC02-Series 2.50 x 2.00 x 0.80 (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.

