

## **TLT3-Series Specifications**



#### 3.28L x 2.50W x 1.30H (mm)

Wi2Wi's *TLT3-Series* Temperature Compensated Crystal Oscillator (TCXO) ensures a precise frequency under demanding circumstances. With excellent time keeping accuracy and ultra-low power consumption, this TCXO is ideal for battery operated devices. Wi2Wi provides fast sampling for your proto-typing needs, mass production capability, and competitive pricing.



Parameter		Supply Voltage Range (±5%)				Units	
		1.8	2.5	3.0	3.3	5.0	V
Frequency				32.768000			KHz
Frequency Stability	Calibration (@ +25°C ±3°C) (Max)	±1.5					
	vs Temperature (Max.)	Per Option					
	vs Supply Voltage (Max.) (5% Change)	±0.2 ±0.2			ppm		
	vs Load (Max.) (10% Change)						
	vs Aging (Max. 1st year)	±3.0					
Timing Error Over Time	±5.0ppm , -40°C to +85°C	±.432 sec/day , ±12.96 sec/month , ±2.628 min/year (w.r.t. frequency @+25°C)		min/year			
Tana ana tana Dana a	Operating	Per Option				°C	
Temperature Range	Storage	-55 to +125					
Supply Current (Maximum)		0.79	1.05	1.25	1.37	2.05	μΑ
Output				CMOS			
Load		15				рF	
Duty Cycle (Typical)	uty Cycle (Typical) @ 50% Vcc		60/40				%
Rise/Fall Times (Maximum)	From 20% to 80%	100				nS	
Output Voltage Level	Voh , High Level (Minimum)	Vcc-0.4				V	
	Vol , Low Level (Maximum)	0.4					
Pin 1 (Tri-State)	Vih (Enable)	80			— % Vcc		
	Vil (Disable)	20					
Start Up Time (Maximum)	@ +25°C	1.0				606	
	-40°C to +85°C	3.0				sec	

rev: NA	SIZE: A	CAGE: 0S4G1	<b>1</b> of <b>3</b>

# TLT3-Series 3.28 x 2.50 x 1.30 (mm)

### PACKAGE DIMENSIONS

Tolerance: ±.008 [.20mm] (Unless otherwise specified)

	Wireless 2 Wireless
PIN	CONNECTION
1	Tri-State
2	Ground/Case
3	Output
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Contacts: Electro Au, 11.8 to 40.0  $\mu$ inches (.30 to 1.0  $\mu$ m) over Electro Ni, 50 to 350  $\mu$ inches (1.27 to 8.89  $\mu$ m)



rev: NA	SIZE: A	CAGE: 0S4G1	<b>2</b> of <b>3</b>

## TLT3-Series 3.28 x 2.50 x 1.30 (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.

