

### Features:

- Miniature SMD Package
- Moisture Sensitivity Level (MSL) : Level-2

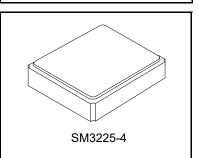
## **Description and Applications:**

Surface mount 3.2mmx2.5mmm TCXO

# **Electrical Specifications:**

XTC4004P-1	Specifications						
Nominal Frequency, Fo	32.768 KHz						
Storage Temperature Range	-55°C to +105°C						
Operating Temperature Range	-40°C to +85°C						
Power Supply Voltage, Vdd	2 ~ 3.465 V (Nominal to 3.3V)						
Output Waveform	CMOS Square Wave						
Output Load	15pF						
"0" Level "1" Level	0.4V max Io∟=0.1mA Vdd-0.4V min Iон=-0.1mA						
Power Supply Current, Icc	1uA typical 2uA max without load						
Initial Frequency Tolerance	+/- 3.0 ppm max @ 25°C +/- 2°C						
Duty Cycle	40% ~ 60% Typical						
Rise Time(20% -> 80% of final RF level in Vp-p) Fall Time(80% -> 20% of final RF level in Vp-p)	100 nsec max. 100 nsec max.						
Frequency Stability a. Vs. Temperature (-40~85°C) b. Vs. Supply Voltage Delta Freq/V	+/- 5.0 ppm reference to 25°C +/- 1.2 ppm/V						
Reflow	+/-1 ppm max						
Start –Up Time	1 s max @ 25°C, 3 s max over-40°C to +85°C						
Aging	+/-3 ppm per years						



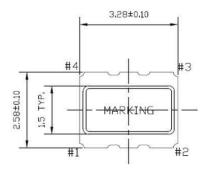


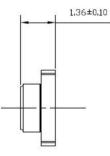
80% Vdd min 20% Vdd max Forbidden

#### CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

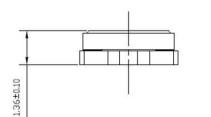
- The design, manufacturing process, and specifications of this device are subject to change.
  US or International patents may apply.
- 3. RoHS compliant from the first date of manufacture.

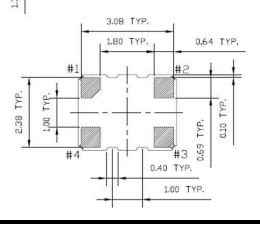
### Mechanical Dimensions (mm):

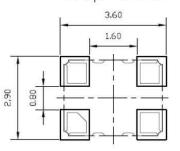




Recommended Land Pattern (Top View)

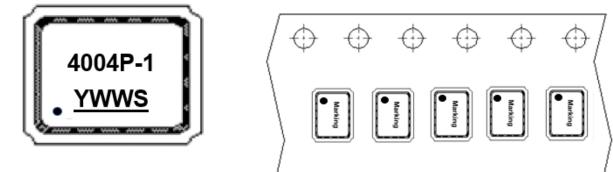






	Pin Connection					
#1	Output Elnable					
#2	Ground					
#3	Frequency Out					
#4	Supply Voltage					

Marking: Y = Year, W = Week

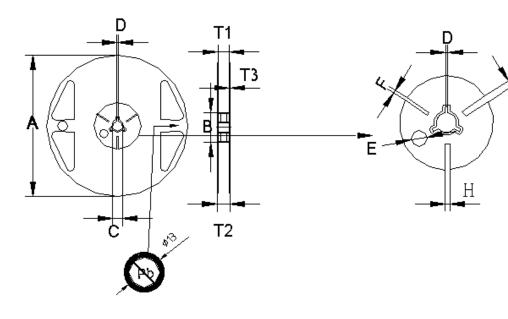


Packing (mm):

**1..Reel Dimension** 

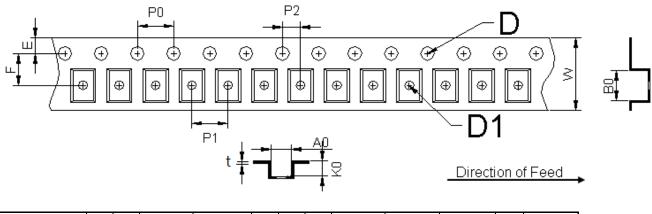
Tape and Reel Standard per ANSI/EIA-481

Reel Count: 7" = 3000



	А	В	С	D	Е	F	Н	G	T2	T1	Т3
Dimensions	180	60	13.0	2.0	9.1	2.9	3.9	4.9	11.4	9.0	1.2
Tolerance	±1.0	+1.0	±0.2	±0.5	±0.5	±0.5	±0.5	±0.5	±1.0	±0.3	±0.1

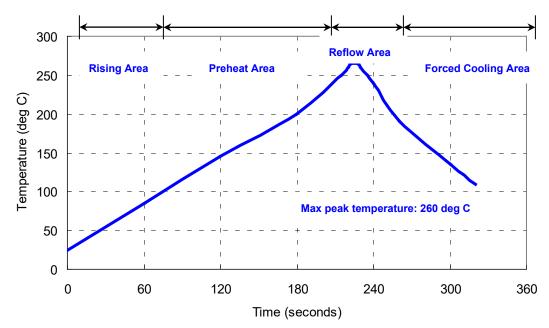
### 2. Tape Dimension



Unit: mm	A0	B0	W	F	Е	P0	P1	P2	D1	D	K0	t
Dimension	2.80	3.71	8.00	3.5	1.75	4.00	4.00	2	1.50	1.0	1.75	0.25
Tolerance	±0.1	±0.1	+0.3/-0.1	±0.05	±0.1	±0.1	±0.1	±0.05	+0.1/-0.00	+0.25/-0.00	±0.1	±0.02

# **Reflow Profile:**





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### Notes of the Usage:

- 1. Touch the solder iron at 260+/-5 deg C onto the leads for 10+/-2 sec max or touch the solder at 350+/-5 deg C onto the leads for 3+/-0.5 sec.
- 2. In the customer's reflow process, if it will remain some mechanical stress at the soldering terminals, also make some cracks on the soldering termination. Some cracks will cause open or short circuit and cause of thermal increasing or smoking. Don't make any excess mechanical stress to soldering points.
- 3. In case of giving a heavy shock to the products, it may make an open or short circuit and cause of thermal increasing and smoking. To avoid heavy shock impact applying to products is strictly required.

### Notes of the Storage:

- To keep products under the condition at the room temperature (-5~35 deg C) with normal humidity (45~75%). Absorption of moisture and dewdrop may make inferiority of characteristics and a short circuit.
- 2. Oxidization of terminals shall make the solderability more inferior. Dusts and corrosive gas will make a cause of the open or short circuit. Keep it in the clean place where is not in dusty and no corrosive gas.
- 3. Use the anti-static material to the storage package.
- 4. Don't put any excess weight to the TCXO in the storage process.

# **Mouser Electronics**

Authorized Distributor

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RFMi:

XTC4004P-1