



## Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA  
TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

**TCXO914K-76.8MHz-A-V**

**76.8MHz SMD TCXO**

### Features and Benefits

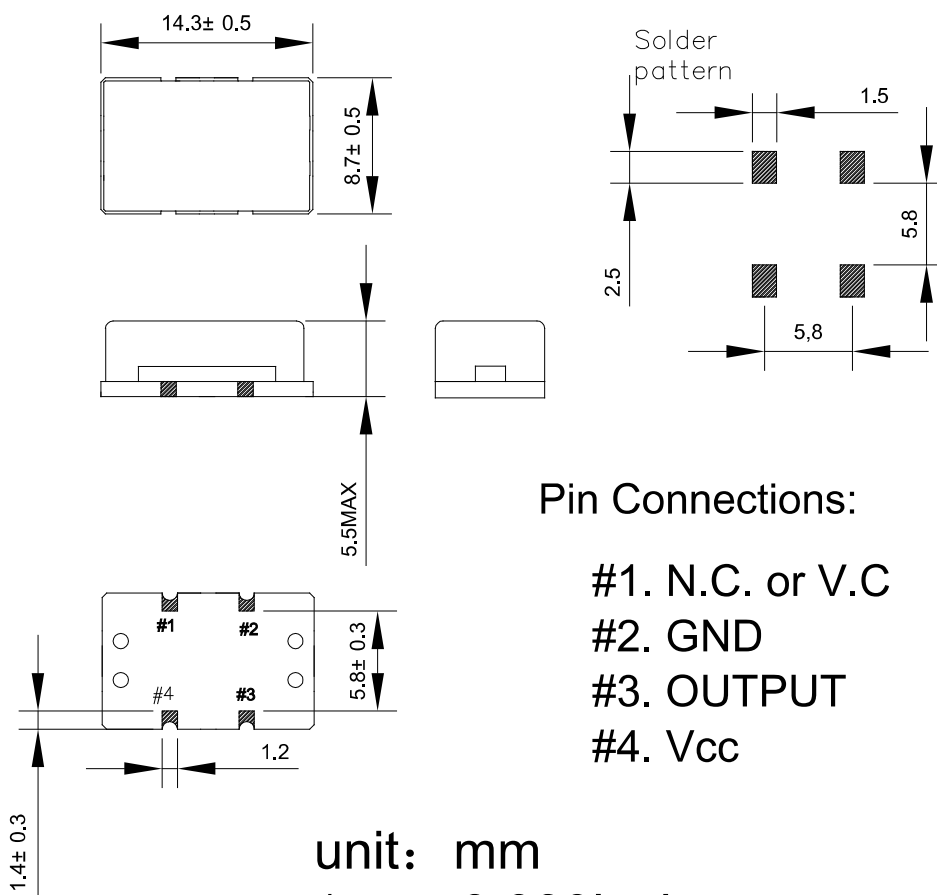
High accurate temperate compensation  
HCMOS output signal  
Low aging  $\pm 1.0\text{ppm}$  max. at first year  
Operating temperature  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

### Typical Applications

Mobile Radio  
Communication equipments

### Mechanical Drawing & Pin Connections

**Drawing No: MD150099-1**



#### Pin Connections:

- #1. N.C. or V.C
- #2. GND
- #3. OUTPUT
- #4. Vcc

unit: mm  
 $1\text{mm}=0.039\text{inch}$



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**76.8MHz SMD TCXO**

## Specifications

TCXO914K-70MHz-A Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F <sub>nom</sub>			76.8		MHz	
<b>RF Output</b>							
Wave form				HCMOS			
Output Load				15		pF	
Duty cycle			45		55	%	
Rise/Fall time					5	ns	
<b>Power Supply</b>							
Voltage	V <sub>cc</sub>		3.135	3.3	3.465	V	
Input Current					30	mA	
<b>Frequency Voltage</b>							
Control Voltage			0.15	1.65	3.15	V	
Frequency Deviation			+/-8			ppm	
<b>Frequency Stability</b>							
Vs. Temperature		From -40°C to +85°C,			+/-2.0	ppm	
Tolerance		@25°C, V <sub>control</sub> =1.65V			+/-1.0	ppm	
Vs. Supply Voltage		3.3V+/-5%			+/-0.2	ppm	
Vs. Load		15pF+/-10%			+/-0.2	ppm	
Aging	first year				+/-1.0	ppm	
<b>Phase Noise</b>							
Phase Noise		@1KHz		-140		dBc	
<b>Environmental Conditions</b>							
Operating Temperature		-40°C, to +85°C,					
Storage temperature range		-45°C to +90°C,					