



## Crystal Oscillator - CXO - Full size / Dip 14

**Pin Type - 21.0 x 13.2 x 5.08mm**

### ● Features

- High performance
- Low cost
- RoHS compliant

### ● General Specification

Type		Full Size - Dip 14	
Frequency Range		1.00MHz to 150.00MHz	
Frequency Stability (Overall)		$\pm 10\text{ppm}$ to $\pm 100\text{ppm}$	
Input	Current Consumption	25mA (1.000 - 35.999MHz) 60mA (36.00 - 69.999MHz) 80mA (70.00 - 150.00MHz)	20mA (1.000 - 35.999MHz) 40mA (36.00 - 69.999MHz) 60mA (70.00 - 150.00MHz)
	Supply Voltage	5.0V $\pm$ 10%	3.3V $\pm$ 10%
Temperature Range	Operating	-10 to +60°C or custom-designed	
	Storage	-40 to +85°C or custom-designed	
Output	Waveform	TTL	HCMOS
	Load	10TTL	15pF
	Symmetry	40/60% or 45/55%	
	Rise Time	TR	10nS max.
	Fall Time	TF	10nS max.
	Voltage	VoH	TTL: 2.4V min
VoL		TTL: 0.4V max	HCMOS: 0.1V max
Tri-State Function (Pin 1)		Enable: Tri-state Disable: NC	
Start-Up Time		10mS max	
Aging First Year		$\pm 5\text{ppm}$ max	

NEWXTAL - New Crystal

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### ● Frequency Stability Codes (ppm)

1 = $\pm 20$	2 = $\pm 25$	3 = $\pm 30$	4 = $\pm 50$	5 = $\pm 100$	7 = $\pm 35$
8 = $\pm 15$	a = $\pm 10$	b = $\pm 70$			

\* Frequency stability includes stability at 25°C, operating temperature range, supply voltage and aging 1st year.

### ● Operating Temperature Range Codes(°C)

1 = 0 to +70	2 = -10 to +70	3 = -20 to +70	4 = -40 to +85	5 = -10 to +60	6 = -20 to +60
7 = 0 to +100	8 = 0 to +60	9 = -30 to +65	A = -55 to +125	B = -30 to +80	C = -10 to +50

### ● Marking

Holder

Frequency + M (MHz) + Date code ( Year Code + Month Code )

NEWXTAL (Company brand)

Year Code:

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1	2	3	4	5	6	7	8	9	10	11	12

Month Code:

Jan	Feb	March	Apr	May	June	July	August	September	October	Nov	December
A	B	C	D	E	F	G	H	I	J	K	L

For Example:

CXO 10.00M6A NEWXTAL
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### ● Ordering Information

Holder	Type	SMD Size	Stability (ppm)	Temperature (°C)	Input voltage (V)	Tri-state	Symmetry	Pullability (ppm)	Frequency	Lead-free	Packing
C= CXO	14=Full size	Blank= N/A	See tables		1=3.3 2=5.0	N = No T = Yes	45 = 45/55% 46 = 40/60%		xx.xxM	LF=leadfree	Blank: Bulk or Tube
			$\pm 50$	-10 to +70				N = N/A			
<b>C</b>	<b>14</b>		<b>4</b>	<b>2</b>	<b>1</b>	<b>N</b>	<b>45</b>	<b>N</b>		<b>LF</b>	

For Example: C14421N45N-10.000MLF

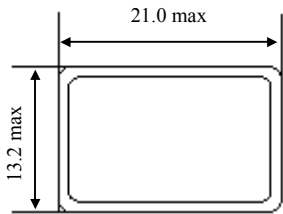
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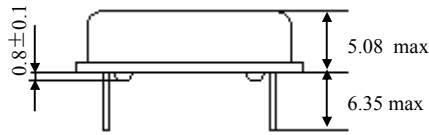
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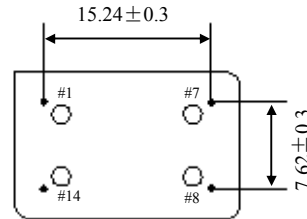
## • Dimensions



Top View



Side View



Bottom View

Pin Connection  
#1 NC or Tri-state  
#7 Ground  
#8 Output  
#14 Supply voltage

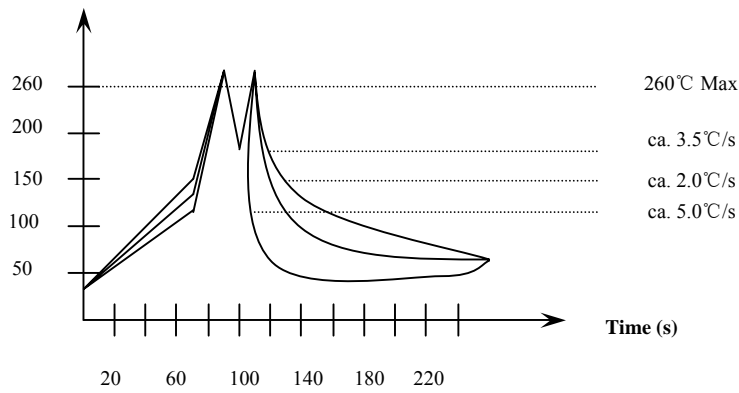
in mm

## • Packing

Bulk or 25pcs packed in anti-static plastic tube.

## • Wave Soldering Profile

Bath temperature (°C)



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