



# Oscillator - CXO - Half size Dip 08

## Pin Type Oscillator - 13.2 x 13.2 x 5.08mm

### ● Features

- High performance
- Low cost
- RoHS compliant

### ● General Specification

Type		Half Size - Dip 08	
Frequency Range		1.00MHz to 156.00MHz	
Frequency Stability (Overall)		$\pm 10\text{ppm}$ to $\pm 100\text{ppm}$	
Input	Current Consumption	15mA (1.000 - 9.999MHz) 30mA (10.00 - 39.999MHz) 60mA (40.00 - 100.00MHz)	15mA (1.000 - 9.999MHz) 20mA (10.00 - 39.999MHz) 30mA (40.00 - 59.999MHz) 40mA (60.00 - 89.999MHz) 60mA (90.00 - 100.00MHz)
	Supply Voltage	5.0V $\pm$ 10%	3.3V $\pm$ 10%
Temperature	Operating	-10 to +70°C	
	Storage	-40 to +85°C	
Output	Waveform	TTL / HCMOS	HCMOS
	Load	10LSTTL / 15pF	15pF
	Symmetry	40/60% / 45/55%	
	Rise Time	TR	10nS max.
	Fall Time	TF	10nS max.
	Current	25mA max	
	Voltage	VoH	TTL: 2.4V min / HCMOS: 0.9V min
VoL		TTL: 0.4V max / HCMOS: 0.1V max	HCMOS: 0.1V max
Enable/Disable Function (Pin 1)		Enable: Open or high Disable: GND or low	
Output enable time max		5ms	
Output disable time max		150ns	
Start-Up Time		10mS max	
Standby function		Optional	
Phase jitter 12KHz - 20MHz		<5.0ps RMS	
Shock Resistance		$\pm 10\text{ppm}$ max	

# Oscillator - CXO - Half size Dip 08

## ● 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 range, shock and vibration and aging 1st year.

## ● Operating Temperature 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

## ● Pulling Range Codes (ppm)

A = $\pm 50$	B = $\pm 70$	C = $\pm 100$	E = $\pm 60$	F = $\pm 90$	N = N/A
--------------	--------------	---------------	--------------	--------------	---------

## ● 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:



## ● Ordering Information

Holder	Type	SMD Size	Stability	Temperature	Input voltage	Tri-state	Symmetry	Pulling Range	Frequency	Lead-free	Packing
			(ppm)	(°C)	(V)			(ppm)			
C= CXO	08=Half size	Blank= N/A	See tables		1=3.3 2=5.0	N = No T = Yes	45 = 45/55% 46 = 40/60%	See table	xx.xxM	LF=leadfree	Blank: Bulk or Tube
			$\pm 50$	-10 to +70				N = N/A			
<b>C</b>	<b>08</b>		<b>4</b>	<b>2</b>	<b>1</b>	<b>N</b>	<b>45</b>	<b>N</b>		<b>LF</b>	

For Example: **C08421N45N-10.000MLF**

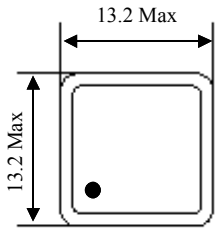
NEWXTAL

Website: [www.newxtal.com](http://www.newxtal.com)

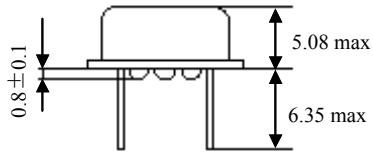
Email: [hkcrystal@incnets.com](mailto:hkcrystal@incnets.com)

# Oscillator - CXO - Half size Dip 08

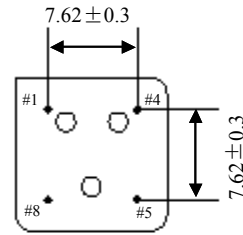
## • Dimensions



Top View



Side View



Bottom View

Pin Connection  
#1 NC or E/D  
#4 Ground  
#5 Output  
#8 Supply voltage

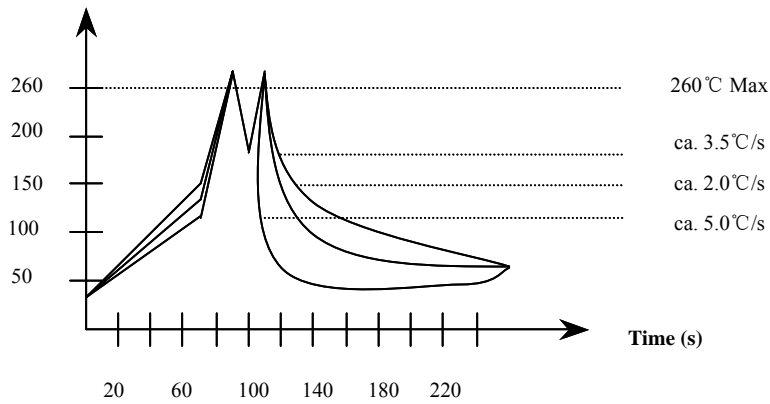
in mm

## • Packing

Bulk or 40pcs packed in anti-static plastic tubes.

## • Wave Soldering Profile

Bath temperature (°C)



NEWXTAL

Website: [www.newxtal.com](http://www.newxtal.com)

Email: [hkcrystal@incnets.com](mailto:hkcrystal@incnets.com)