



Voltage Controlled Crystal Oscillator - VCXO - 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 250.00MHz	
Frequency Stability (Overall)		± 10ppm to ± 100ppm	
Input	Current Consumption	35mA (< 50.000MHz) 50mA (< 90.000MHz) 60mA (< 250.00MHz)	
	Supply Voltage	5.0V± 10% or 3.3V ± 10%	
Temperature Range	Operating	-10 to +60°C or custom-designed	
	Storage	-55 to +125°C or custom-designed	
Output	Waveform	HCMOS	
	Load	15pF	
	Symmetry	40/60% or 45/55%	
	Rise Time	TR	10nS max.
	Fall Time	TF	10nS max.
	Voltage	VoH	90%V min
VoL		10%V max	
Control Voltage Range		0-5.0V or 0-3.3V	
Linearity		10%	
Pullability		± 50ppm to ± 200ppm	
Start-Up Time		10mS max	
Aging First Year		±5ppm max	

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● Frequency Stability Codes (ppm)

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

* Frequency stability includes stability at 25 °C, operating temperature range, supply voltage range 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

● Pullability Codes (ppm)

A = ± 50	B = ± 70	C = ± 100	E = ± 60	F = ± 90	N = N/A
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● Marking

Holder

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

NEWXTAL (Company brand)

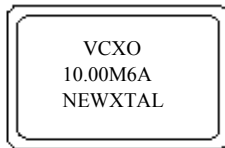
Year Code:

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 (ppm)	Temperature (°C)	Input voltage (V)	Tri-state	Symmetry	Pullability (ppm)	Frequency	Lead-free	Packing
V=VCXO	14=Full size	Blank= N/A	See tables		1=3.3 2=5.0	N = N/A	45 = 45/55% 46 = 40/60%	See table	xx.xxM	LF=leadfree	Blank: Bulk or Tube
			± 50	-10 to +70				± 100			
V	14		4	2	1	N	45	C		LF	

For Example: V14421N45C-10.000MLF

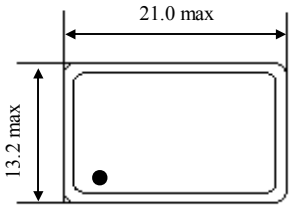
NEWXTAL - New Crystal

Website: www.newxtal.com

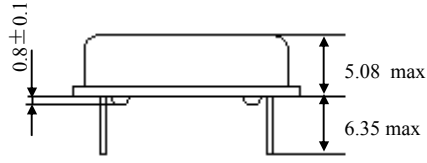
Email: sales@newxtal.com

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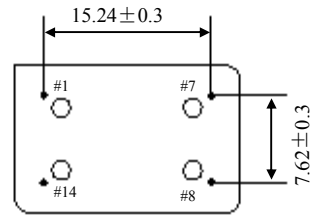
• Dimensions



Top View



Side View



Bottom View

Pin Connection
#1 Vcontrol
#7 Ground
#8 Output
#14 Supply Voltage

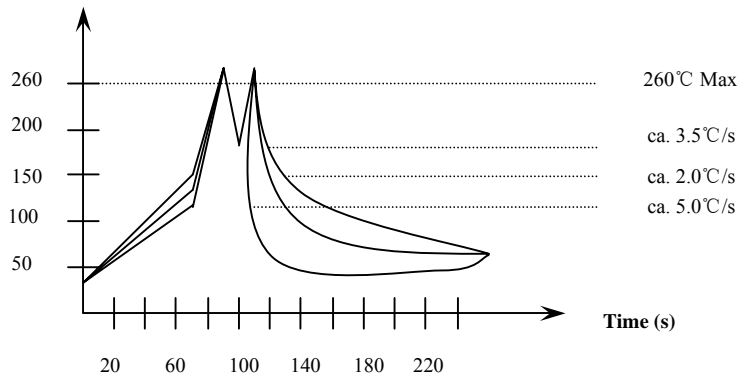
in mm

• Packing

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

• Wave Soldering Profile

Bath temperature (°C)



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Email: sales@newxtal.com