



Voltage Controlled Crystal Oscillator - VCXO - Half size / Dip 08

Pin Type - 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 250.00MHz	
Frequency Stability (Overall)		$\pm 10\text{ppm}$ to $\pm 100\text{ppm}$	
Input	Current Consumption		35mA (< 50.000MHz) 50mA (< 90.000MHz) 60mA (< 250.00MHz)
	Supply Voltage		5.0V $\pm 10\%$ or 3.3V $\pm 10\%$
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		$\pm 50\text{ppm}$ to $\pm 200\text{ppm}$	
Start-Up Time		10mS max	
Aging First Year		$\pm 5\text{ppm}$ max	

NEWXTAL - New Crystal

Website: www.newxtal.com

Email: sales@newxtal.com

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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	Sept	Oct	Nov	Dec
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	Pullability	Frequency	Lead-free	Packing
			(ppm)	(°C)	(V)			(ppm)			
V=VCXO	08=Half 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	08		4	2	1	N	45	C		LF	

For Example: V08421N45C-10.000MLF

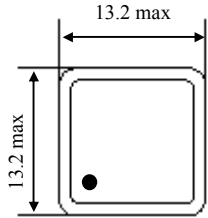
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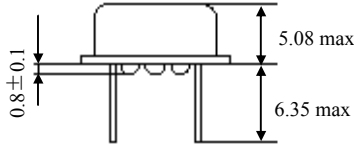
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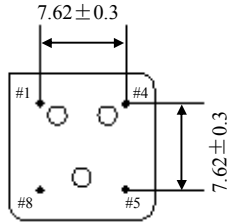
• Dimensions



Top View



Side View



Bottom View

- Pin Connection
- #1 Vcontrol
 - #4 Ground
 - #5 Output
 - #8 Supply Voltage

in mm

• Packing

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

• Wave Soldering Profile

