



Voltage Controlled Crystal Oscillator - VCXO - SMD 7050

SMD Version - 7.0 x 5.0 x 1.8mm

● Features

- High performance
- Low cost
- RoHS compliant

● General Specification

Type		SMD 7.0 x 5.0	
Frequency Range		2.000MHz to 50.00MHz	
Frequency Stability (Overall)		± 25ppm to ± 100ppm	
Input	Current Consumption		35mA
	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	
Tri-State Function (Pin 1)			Enable: Tri-state Disable: NC
Control Voltage Range			0-5.0V or 0-3.3V
Linearity			10%
Pullability			± 50ppm to ± 100ppm
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 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

Frequency + V (Holder: VCXO) + Date code (Year Code + Month Code)
NEWXTAL (Company brand)

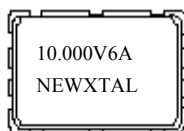
Year Code:

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	S=SMD	1=7.0x5.0	See tables		1=3.3 2=5.0	N=NC T=Tri-state	45 = 45/55% 46 = 40/60%	See table	xx.xxM	LF=leadfree	TR=Tape & Reel
			± 50	-10 to +70				± 50			
V	S	1	4	2	1	N	45	A		LF	TR

For Example: VS1421N45A-10.000MLF/TR

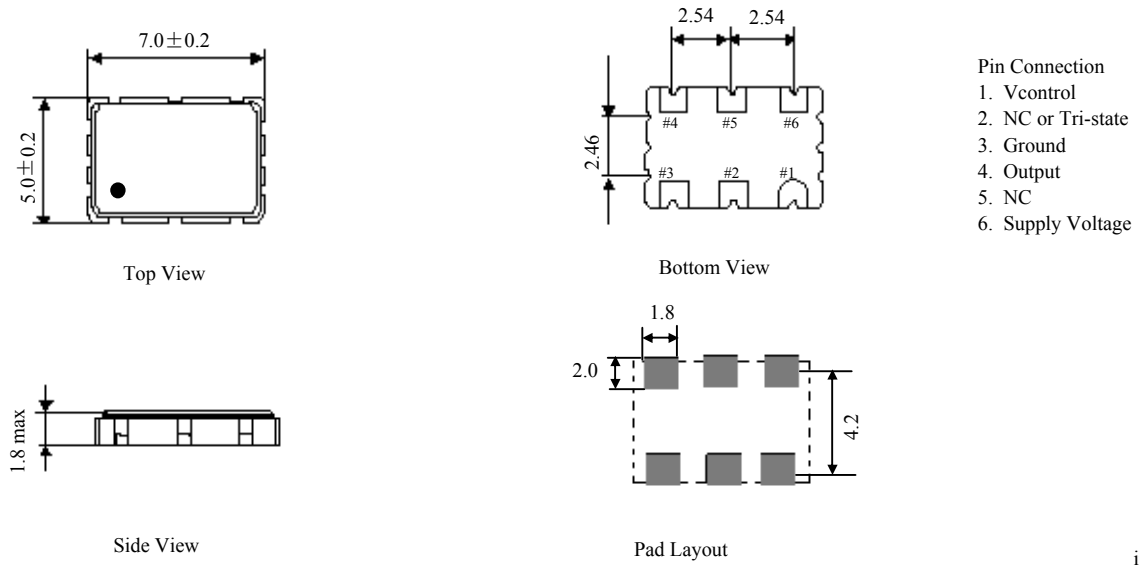
NEWXTAL - New Crystal

Website: www.newxtal.com

Email: sales@newxtal.com

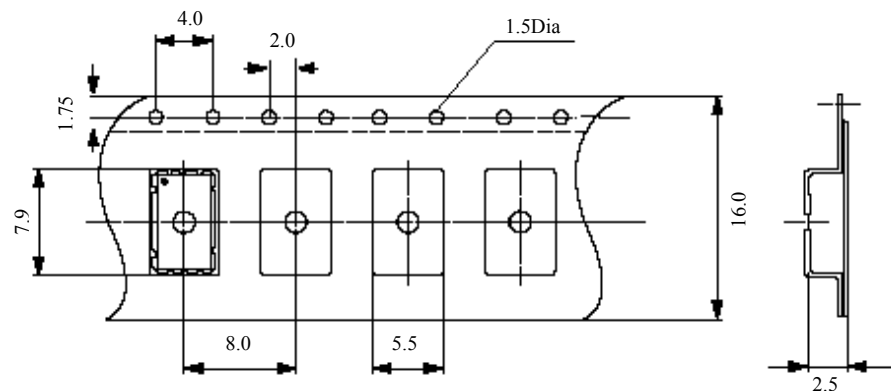
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Dimensions



in mm

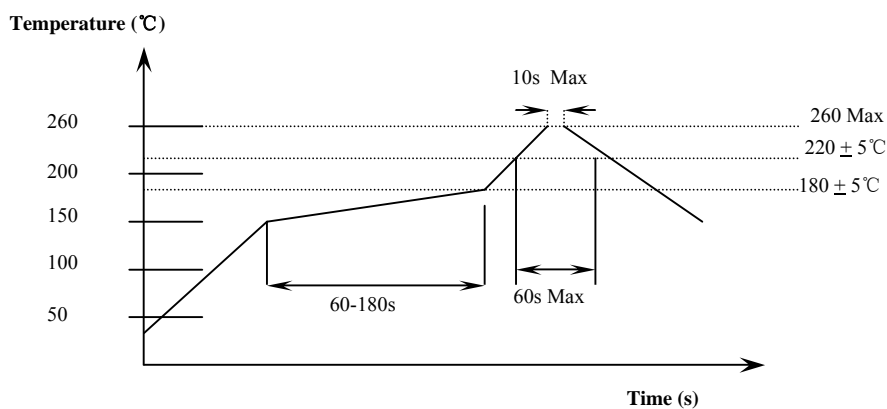
Taping Specification



* Quantity: 1K/reel

in mm

Reflow Soldering Profile



NEWXTAL - New Crystal

Website: www.newxtal.com

Email: sales@newxtal.com