



# SMD Oscillator - SMD 7050

## SMD Type Oscillator - 7.0 x 5.0 x 1.4mm

### ● Features

- High performance
- Low cost
- RoHS compliant

### ● General Specification

Type		SMD 7.0 x 5.0	
Frequency Range		1.00MHz to 156.25MHz	
Frequency Stability (Overall)		± 20ppm to ± 100ppm	
Input	Current Consumption	25mA (1.000 - 35.999MHz) 60mA (36.00 - 69.999MHz) 80mA (70.00 - 125.00MHz)	20mA (1.000 - 35.999MHz) 40mA (36.00 - 69.999MHz) 60mA (70.00 - 125.00MHz)
	Supply Voltage	5.0V ± 10%	3.3V ± 10%
Temperature	Operating	-10 to +70 °C	
	Storage	-45 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		± 10ppm max	

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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 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
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## ● Marking

**Frequency + C (Holder: CXO) + 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	Pulling Range (ppm)	Frequency	Lead-free	Packing
C= CXO	S=SMD	1=7.0x5.0	See tables		1=3.3 2=5.0	N = No T = Yes	45 = 45/55% 46 = 40/60%	See table	xx.xxM	LF=leadfree	TR=tape & reel
			$\pm 50$	-10 to +70				N = N/A			
<b>C</b>	<b>S</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>T</b>	<b>45</b>	<b>N</b>		<b>LF</b>	<b>TR</b>

**For Example: CS1421T45N-10.000MLF/TR**

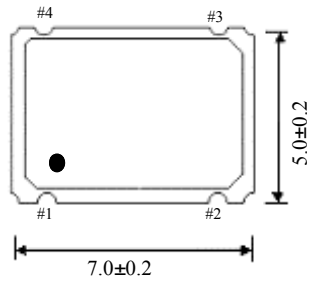
NEWXTAL

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

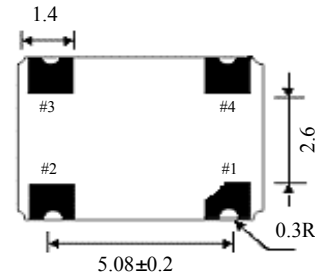
Email: [hkcrystal@incnets.com](mailto:hkcrystal@incnets.com)

# SMD Oscillator - SMD 7050

## Dimensions

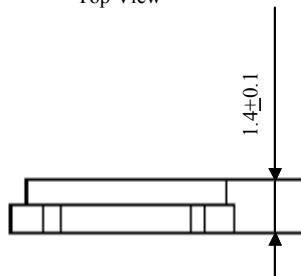


Top View

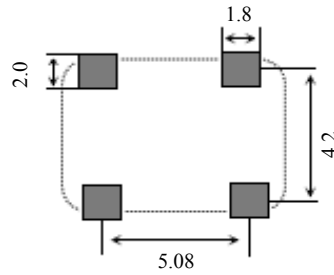


Bottom View

- Pin Connection
- #1 NC or E/D
  - #2 Ground
  - #3 Output
  - #4 Supply Voltage



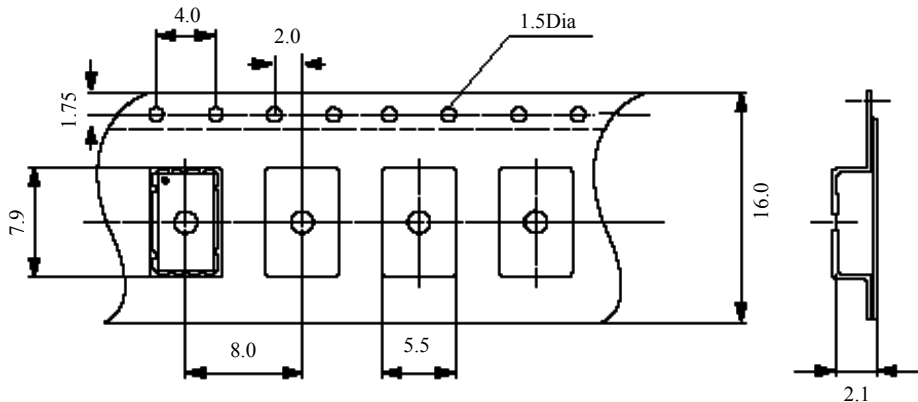
Side View



Pad Layout

in mm

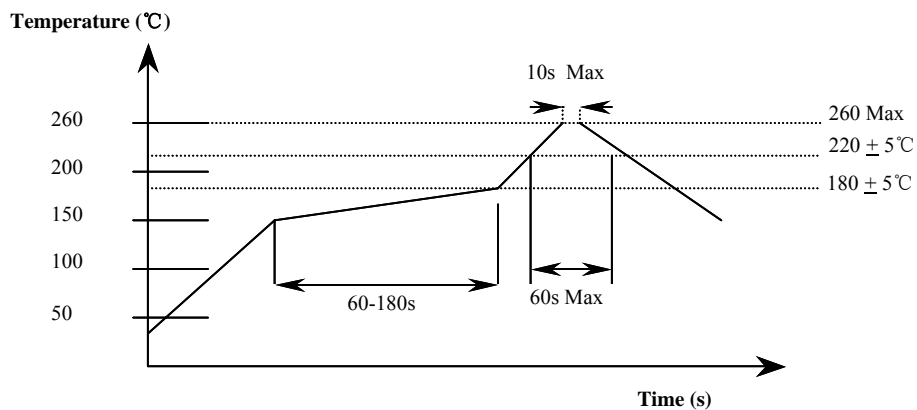
## Taping Specification



\* Quantity: 1K/reel

in mm

## Reflow Soldering Profile



NEWXTAL

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