



SMD Oscillator - SMD 5032

SMD Type Oscillator - 5.0 x 3.2 x 1.3mm

● Features

- High performance
- Low cost
- RoHS compliant

● General Specification

Type		SMD 5.0 x 3.2	
Frequency Range		1.544MHz to 100.00MHz	
Frequency Stability (Overall)		± 30ppm to ± 100ppm	
Input	Current Consumption	25mA (1.544 - 35.999MHz) 60mA (36.00 - 69.999MHz) 80mA (70.00 - 100.00MHz)	20mA (1.544 - 35.999MHz) 40mA (36.00 - 69.999MHz) 60mA (70.00 - 100.00MHz)
	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 = ± 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, 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 = ± 50	B = ± 70	C = ± 100	E = ± 60	F = ± 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	Temperature	Input voltage	Tri-state	Symmetry	Pulling Range	Frequency	Lead-free	Packing
			(ppm)	(°C)	(V)			(ppm)			
C= CXO	S=SMD	2=5.0x3.2	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
			± 50	-10 to +70				N = N/A			
C	S	2	4	2	1	T	45	N		LF	TR

For Example: CS2421T45N-10.000MLF/TR

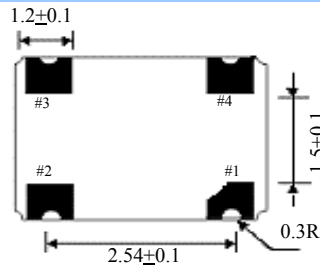
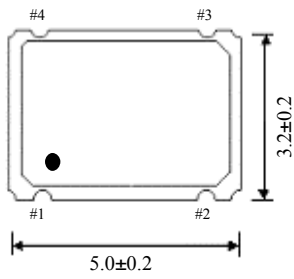
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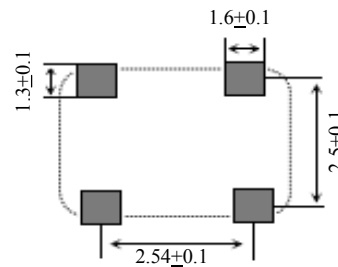
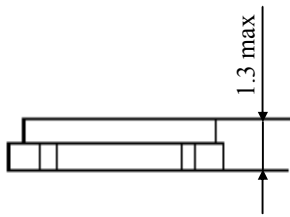
Email: hkcrystal@incnets.com

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Dimensions

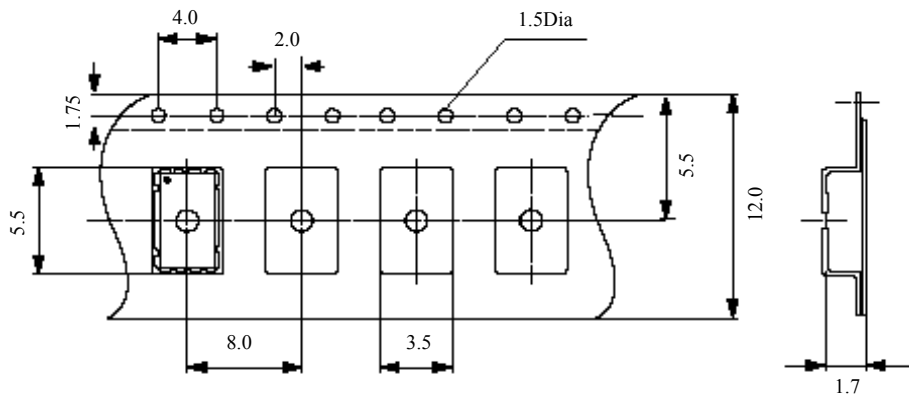


- Pin Connection
- #1 NC or Tri-state
 - #2 Ground
 - #3 Output
 - #4 Supply Voltage



in mm

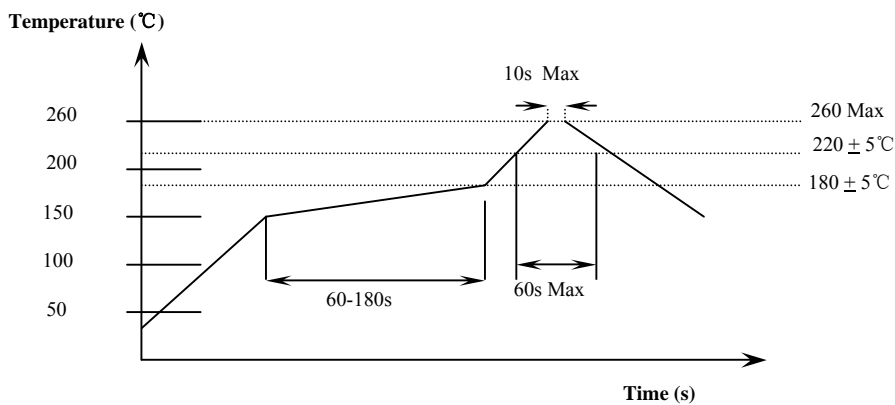
Taping Specification



* Quantity: 1K/reel

in mm

Reflow Soldering Profile



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