

Oscillator - (VC)TCXO - SMD 5032

SMD Type (VC)TCXO - $5.0 \times 3.2 \times 1.2$ mm

Features

High performance

Low power

RoHS compliant

General Specification

Туре		SMD 5.0 x 3.2				
Frequency Range		10.00MHz to 30.00MHz				
	at 25 ℃	<u>+</u> 0.5ppm max				
		± 1.0ppm (0 to +50 °C)				
		± 1.5ppm (-10 to +60 °C)				
	vs Temperature	± 2.0ppm (-20 to +70 °C)				
Frequency Stability		\pm 2.5ppm (-30 to +75 °C)				
		± 5.0ppm (-40 to +85 °C)				
	Aging first year	<u>+</u> 1.0ppm max				
	vs Load Change of ±10%	<u>+</u> 0.2ppm				
	vs Supply Voltage Change of ±5%	<u>+</u> 0.2ppm				
T	Operating	0 to +50°C				
Temperature	Storage	-40 to + 85 °C				
I	Supply Voltage	2.8V to 5.0V				
Input	Current Consumption	2.5mA max				
	Waveform	Clipping Sine				
Output	Load	10kΩ / 10pF				
	Level	>0.8Vp-p				
Fortonial Control Formation	External Tuning Range	<u>+</u> 8.0ppm min				
External Control Function	External Tuning Voltage	1.5V <u>+</u> 1.0V				
Start-up Time max		2.5ms				
	at 100Hz	-115 dBc/Hz				
Phase Noise	at 1KHz	-135 dBc/Hz				
	at 10KHz	-148dBz/Hz				

Website: www.newxtal.com Email: hkcrystal@incnets.com

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• Frequency Stability Codes (ppm)

$A = \pm 1.0$	B = + 1.5	$C = \pm 2.0$	$D = \pm 2.5$	E = + 3.0	$F = \pm 4.0$
G = + 5.0	H = + 0.5				

• Operating Temperature Codes (°C)

A = 0 to +50	B = 0 to +70	C = -20 to +70	D = -30 to +75	E = -40 to +85	F = +10 to +70
G = -40 to +60	H = -30 to +80	I = -10 to +40	J = -40 to +70	K = -10 to +60	L = -30 to +70

Marking

 $Frequency + TC(Holder;\ TCXO)\ +\ 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	В	С	D	Е	F	G	Н	Ι	J	K	L

For Example:

10.00TC6A NEWXTAL

Ordering Information

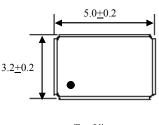
Holder	Type	SMD Size	Stability	Temperature	Input Voltage	Output Waveform	Frequency	Lead-free	Packing
			(ppm)	(°C) (V)					
TC= TCXO VT= VC(TCXO)	S=SMD	2=5.0x3.2	See tables		1=3.3 2=5.0 3=3.0 4=2.8	0 = Clipping Sine	xx.xxM	i i.⊧=ieadīree	TR=tape & reel
			<u>+</u> 1.0	0 to +50					
тс	s	2	A	A	2	0		LF	TR

For Example: TCS2AA20-10.000MLF/TR

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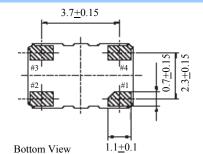
Dimensions

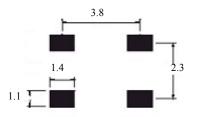


Top View



Side View





Pad layout

TCXO

Pin Connection #1 NC

#2 Ground

#3 Output

#4 Vcc

VCTCXO

Pin Connection

#1 Vcontrol

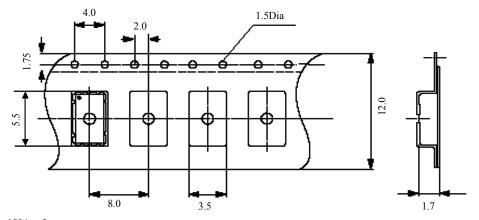
#2 Ground

#3 Output

#4 Vcc

in mm

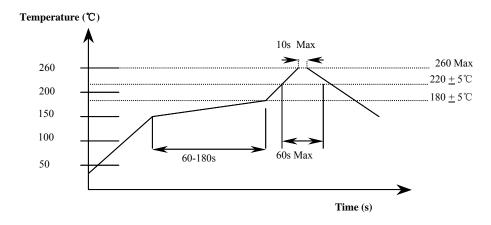
Taping Specification



* Quantity: 1K/reel

in mm

Reflow Soldering Profile



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