

## VCXO SPECIFICATION

<b>Partnumber</b>	<b>10307SP2CV 110.592MHz</b>	<b>Date</b>	<b>05.12.2014</b>
<b>Customer</b>		<b>Ref</b>	

### OSCILLATOR SPECIFICATIONS

Frequency	110.592 MHz
Package*	SP2 4pad
Dimensions L x W x H	14.3x8.7x5.5 mm
Packing	T&R
Packing Unit	1000 pcs / reel

\* This part is Lead-free and full RoHS compliant.

### ELECTRICAL SPECIFICATIONS

Supply voltage	3.3 V +-5%
Supply current	20 mA max
Output type and load	HCMOS , 15 pF
Symmetry	45/55
Rise / Fall time	3 ns max
High / Low levels	High >2.97 V ; Low <0.33 V
Start-up	5 ms max
Enable / disable	No
Jitter RMS (12 kHz – 20 MHz )	1 ps max
Phase noise	10Hz // -85 dBc typ ; -80 dBc max. 100 Hz // -115 dBc typ ; -110 dBc max. 1 kHz // -138 dBc typ ; -135 dBc max. 10 kHz // -147 dBc typ ; -145 dBc max. 100 kHz // -150 dBc typ ; -150 dBc max. 1 MHz // -153 dBc typ ; -153 dBc max. 5 MHz // -158 dBc typ ; -155 dBc max.

### FREQUENCY STABILITY

Temperature range	-40° to +85°C
Initial tolerance @ 25°C	+/-10 ppm max @1.65V control
Stability vs temperature	+/-20 ppm max
Ageing 1 <sup>st</sup> year	+/-3 ppm max

### FREQUENCY CONTROL

Control voltage	0V to 3.3V , center voltage 1.65V
Pulling range	+/-65 ppm min
Slope	Positive
Linearity	10% max



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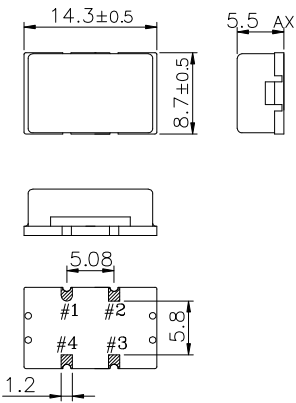
## ENVIRONMENTAL CONDITIONS

Storage temperature	-55° to +125°C
Shock	MIL-STD-202F method 213B , test condition : E , 1000G ½ sine wave
Vibration	MIL-STD-202F method 204 , 35G , 50 to 2000 Hz
Humidity	85% RH , 85°C for 48 hours
Solderability	MIL-STD-202F method 208E
Fine Leak / Gross Leak	MIL-STD-883 method 1014 , condition A / MIL-STD-883 method 1014 , condition C
Resistance to Solvent	MIL-STD-202 method 215
Temperature Cycling	MIL-STD-883 method 1010
Reflow	260°C for 10 sec. 2X

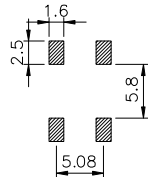
## MARKING

x  
x  
x

## OUTLINE DRAWING



Recommended Soldering Pattern



Pin connection	
# 1	Control voltage
# 2	GND
# 3	Output
# 4	Vdd

REVISIONS	DATE
1 Current max 20 mA	17.12.2014