



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

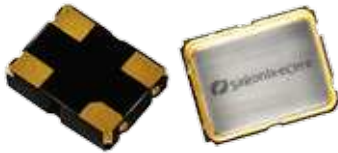
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



1.8V Clipped Sinewave Low Jitter XO



2.5 x 2.0mm Ceramic SMD

Product Features

- Very low Phase Jitter-2ps RMS (10kHz-5MHz)
- Low output current - 2mA Max
- Low power standby mode - 10µA Max
- Low Output Harmonic level
- RoHS Compliant

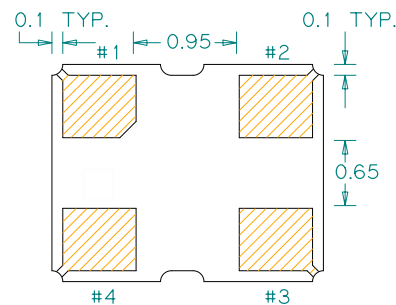
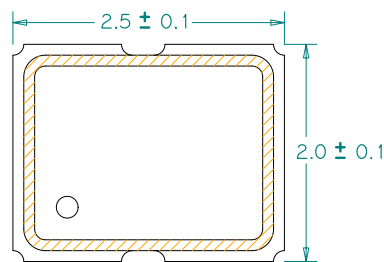
Product Description

This is an enhanced 1.8V crystal clock clipped sine oscillator with superb phase jitter, low output harmonics and operating current for WiFi /Bluetooth wireless module and smart phone applications

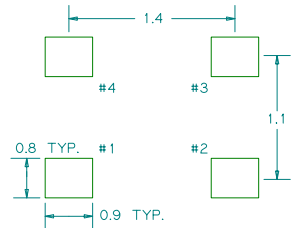
Applications

- WiFi/Bluetooth wireless module
- Smart phone

Package:



Recommended Land Pattern:



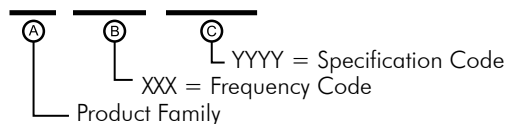
Pin Functions:

Pin	Function
1	OE Function
2	Ground
3	Clock Output
4	V _{DD}

*Extended high frequency power decoupling is recommended (see test circuit for minimum recommendation). To ensure optimal performance, do not route RF traces beneath the package.

Part Ordering Information:

UJ XXX YYYY



Electrical Performance

Parameter	Min.	Typ.	Max.	Units	Notes
Output Frequency	1		50	MHz	
Supply Voltage	1.62	1.8	1.98	V	
Supply Current, Output Enabled			2	mA	
Supply Current, Standby Mode			10	A	
Frequency Stability			±20 to ±50	ppm	See Note 1 below
Operating Temperature Range	-20		+70	°C	Commercial (standard)
	-40		+85		Industrial (standard)
Output Voltage	0.4		0.9	Vp-p	
Output Load		10/10		pF/kΩ	
Duty Cycle	45		55	%	Measured 50% of V _{DD}
Jitter, Phase			2	ps RMS	1-σ, 10kHz to 5 MHz frequency band

Notes:

- Stability includes all combinations of operating temperature, load changes, rated input (supply) voltage changes, initial calibration tolerance (25°C), aging (5 year at 40°C average effective ambient temperature), shock and vibration.
- For specifications other than those listed, please contact sales.

Output Enable / Disable Function

Parameter	Min.	Typ.	Max.	Units	Notes
Input Voltage (pin 1), Output Enable	0.7 V _{DD}			V	
Input Voltage (pin 1), Output Disable (low power standby)			0.3 V _{DD}	V	Output is Hi-Z
Output Disable Delay			100	ns	
Output Enable Delay			10	ms	

Absolute Maximum Ratings

Parameter	Min.	Typ.	Max.	Units	Notes
Storage Temperature	-55		+125	°C	

For the latest product information visit: http://www.pericom.com/products/timing/oscillators/UJ_1.8V/

For test circuit go to: http://www.pericom.com/pdf/sre/tc_clipsine2.pdf

For soldering reflow profile and reliability test ratings go to: <http://www.pericom.com/pdf/sre/reflow2.pdf>

For tape and reel information go to: http://www.pericom.com/pdf/sre/tr_2520_xo.pdf