



PRODUCT SPECIFICATION

REV O Dec 01 2016

Oscilent Controlled Document

Series Number	Product Description
1130	MEMS Oscillator Ultra Low Power 32.768 kHz 2.0x1.2mm

Contents

- o Part Number Builder
- o Pin Description
- o Package Size and Recommended Land Pattern
- o Electrical Specifications

Features

- o Ultra-low power: 1 μ A typ
- o Internal filtering eliminates external Vdd bypass capacitors
- o Small package
- o RoHS Compliant / Pb Free

Application

- o Wi-Fi Modules
- o RTC Reference Clock
- o Bluetooth Modules





Series Number
1130

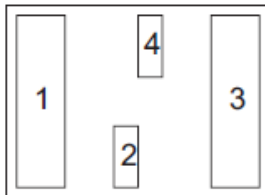
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MEMS Oscillator Ultra Low Power 32.768 kHz 2.0x1.2mm

Part Number Builder

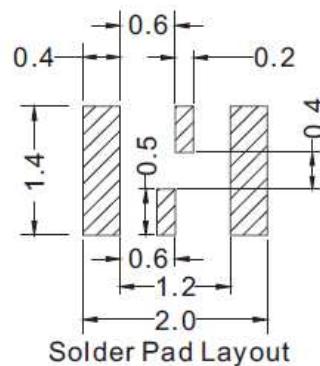
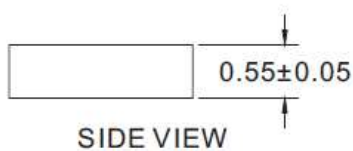
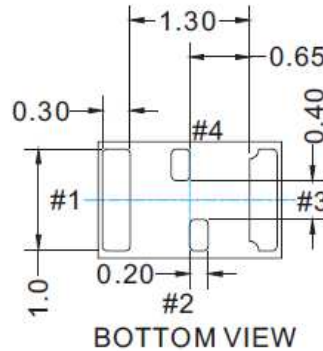
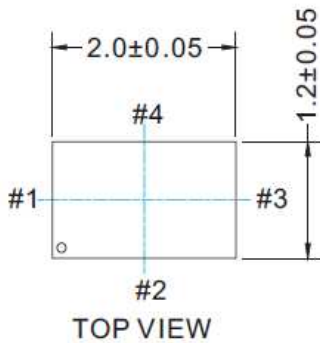
Series Number	Select Frequency	Supply Voltage	Operating Temperature	Pin 1 Function	Packaging
1130 –	32.768K	–		– NC	–
	Frequency	7 = 3.0V 6 = 2.5V 5 = 5.0V 3 = 3.3V 2 = 2.8V 1 = 1.8V	D = -20~+70°C N = -40~+85°C	NC = No Connect	TR = Tape +Reel Blank = Bulk

Pin Description



Pin	Function
1	No Connect
2	Ground
3	Output
4	Vdd

Package Size and Recommended Land Pattern





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Electrical Specifications

Parameters Description	
Frequency Output	32.768kHz
Frequency Tolerance	±20ppm
Operating Temperature Range	-20~+70°C / -40~+85°C
Supply Voltage	1.5V-3.63V
Frequency Stability	±75ppm (-10~+70°C)
Core Operating Current	1.0µA Typ.
Power-Supply Ramp	100ms Max.
Duty Cycle	48-52%
Rise/ Fall Time	100ns Max.
Output High Voltage	90% VDD
Output Low Voltage	10%VDD
Startup Time	300ms Typ.
Maximum Output Drive	50pF Max.
Period Jitter	35nsRMS Typ.
Storage Temperature Range	-40~+105°C
25°C Aging	±1ppm Max./Year