

### Features

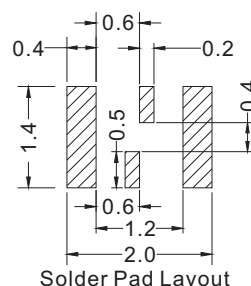
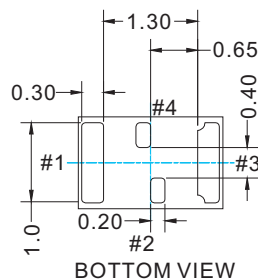
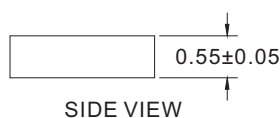
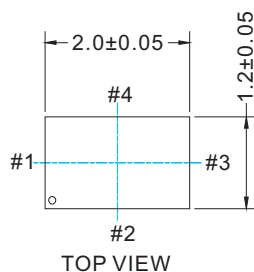
- Ultra-small SMD package: 2.0×1.2 mm (2012)
- Ultra-low power: 1.0  $\mu$ A typ
- Supply voltage: 1.5V~3.63V
- <20ppm initial tolerance
- Internal filtering eliminates external Vdd bypass capacitors
- <100ppm stability over -40°C to +85°C
- Fast startup time of 5ms.
- RoHS, Pb-Free and REACH compliant
- Application of Wi-Fi Modules, RTC Reference Clock, Bluetooth Modules , and more.



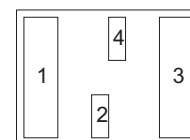
### Electrical Specifications

Item /Type	S6XX (Low Power 32.768kHz Oscillators)
Frequency Output	32.768 kHz
Initial Tolerance	$\pm 20$ ppm
Operating Temperature Range	-20~+70°C / -40~+85°C
Supply Voltage	1.5V~3.63V
Frequency Stability	$\pm 75$ ppm (-10~+70°C)
Operating Current	1.0 $\mu$ A Type.
Power-Supply Ramp	100ms Max.
Duty Cycle	48~52%
Rise /Fall Time	100ns Typ.
Output High Voltage	90% VDD
Output Low Voltage	10% VDD
Startup Time	300ms Max.
Maximum Output Drive	50pF Max.
Period Jitter	35 ns <sub>RMS</sub> Typ.
Storage Temperature Range	-40~+105°C
25°C Aging	$\pm 1$ ppm Max./Year

### Dimensions



### PAD FUNCTION



Pin 1: NC  
 Pin 2: GND  
 Pin 3: Output  
 Pin 4: Vdd