









Applications

- RTC Camera

Features

- Frequency range:32.768KHz.
- Ultra Small SMD seam sealed crystal oscillator units.
- Package Size: 1.6*1.2 , 2.0*1.6 2.5*2.0 , 3.2*2.5 , 5.0*3.2 , 7.0*5.0mm



Specifications

Frequency Range	32.768KHz					
Parameter	1.8V~3.3V					
Output Type	CMOS					
Frequency Tolerance(at 25℃)	±10ppm,±20ppm,or specify					
Output Load	15pF					
Operating Temperature Range	-40~+85°C,-40~+125°C,or specify					
Storage Temperature Range	-55~+125℃					
Frequency Versus Temperature Characteristics	± 20ppm, ± 30ppm, ± 50ppm, or specify					
Voltage Vol (Max.) / Vol (Min.)	VOH = 90%Vdd/VOL = 10%Vdd					
Duty Cycle	45~55%					
Start-up Time	3ms Max.					
Supply Current	See Below					
Frequency Aging (at 25℃)	±3 ppm / year Max.					

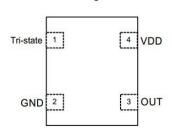
Current Consumption

Cumply Valtage (V)	32.768KHZ		
Supply Voltage (V)	7050/5032/3225	2520/2016/1612	
1.8V	0.2mA max	0.2mA max	
2.5V	0.3mA max	0.3mA max	
3.3V	0.5mA max	0.4mA max	

Pin Dimension

Pin	#1	#2	#3	#4	
FUNCTION	Tri-state	GND	OUTPUT	VDD	

Pin Assignments





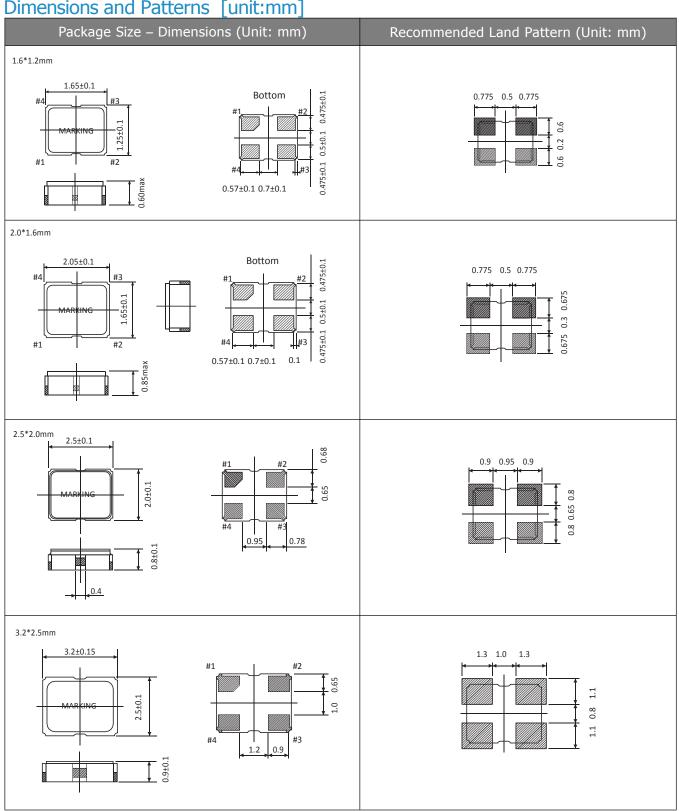








Dimensions and Patterns [unit:mm]



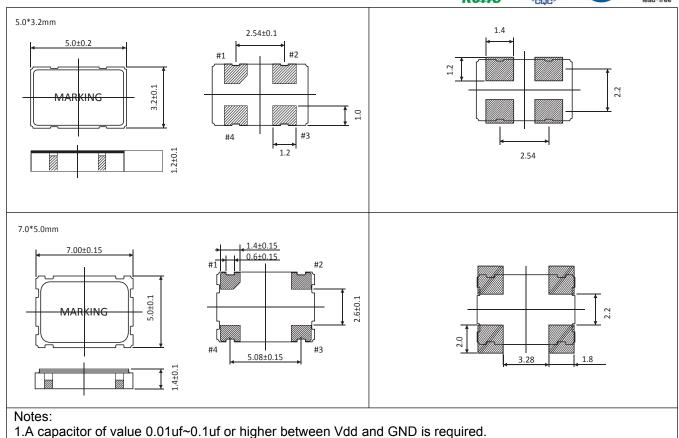












Reflow Soldering Profile

Pre Heating Temperature

Tp1 ~ Tp2 = + 170 °C

Heating Temperature

TMIt = + 220 °C

Peek Temperature

TMax. = + 260 °C

Point of measuring

In case of Solder ability Terminal.

In case of Resistance to soldering heat Surface.

Temperature

+260°C

TMlt

Tp2

Tp1

100s

t(time)



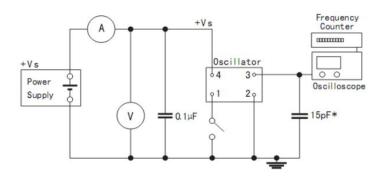




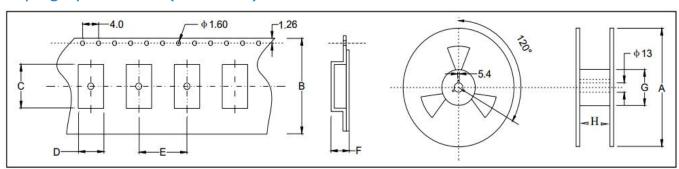




Test Circuit



Taping Specification(Unit: mm)



Size(OSC)	А	В	С	D	Е	F	G	Н
SMD-7050	180±2.0	16.0±0.3	7.50±0.1	5.50±0.1	8.0±0.1	2.00±0.1	61.0±1.0	16.0±1.0
SMD-5032	180±2.0	12.0±0.3	5.40±0.1	3.60±0.1	8.0±0.1	1.70±0.1	61.0±1.0	12.0±1.0
SMD-3225	180±2.0	8.0±0.3	3.40±0.1	2.70±0.1	4.0±0.1	1.50±0.1	61.0±1.0	8.0±1.0
SMD-2520	180±2.0	8.0±0.3	2.90±0.1	2.40±0.1	4.0±0.1	1.20±0.1	61.0±1.0	8.0±1.0
SMD-2016	180±2.0	8.0±0.3	2.30±0.1	1.90±0.1	4.0±0.1	0.95±0.1	61.0±1.0	8.0±1.0
SMD-1612	180±2.0	8.0±0.3	1.80±0.1	1.40±0.1	4.0±0.1	0.80±0.1	61.0±1.0	8.0±1.0

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