

JRC SAW VCO

ENVS007

Application
622.08MHz SONET/SDH

Electrical Specification: (Table 1)

Table 1. Electrical Specifications

Item	Minimum	Typical	Maximum	Unit
Supply Voltage(Vcc)	3.135	3.3	3.465	V
Control Voltage(Vc)	0.15		3.15	V
Supply Current		18	25	mA
Center Frequency(fo)		622.08		MHz
Frequency Range	Vc=0.15V		fo-200	ppm
	Vc=3.15V	fo+450		ppm
Output Level(single ended)	-5	-2		dBm
Frequency Stability,-30 to 85°C	-300		+50	ppm
Ageing Stability	-50		+50	ppm
Absolute Pull Range	± 100			ppm
Spurious Suppression	15	20		dBc

Typical Single Side-Band Phase Noise(dBc/Hz)

Offset from Carrier	100Hz	1kHz	10kHz	100kHz
C/N[dBc/Hz]	-65	-95	-120	-145

Maximum Rating: (Table 2)

Table 2. Maximum Ratings

Parameter	Rating	Unit
Power Supply	0 to 5	V
Voltage Control Range	0 to 3.5	V
Operating Temperature Range	-30~+85	°C
Storage Temperature	-40~+85	°C

Mechanical Specifications: (Fig.1)

Package is designed as small as 14.0x9.0x2.5[mm³] for SMD (Surface Mount Device) type.

Standard Frequency [MHz]

662.080	644.000	669.327	777.600	780.100
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Other frequencies available upon request.

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http://www.jrc.co.jp/product/comm/deveice/saw/saw_top.html (Japanese)
http://www.jrc.co.jp/product/comm/device/saw/saw_top_e.html (English)

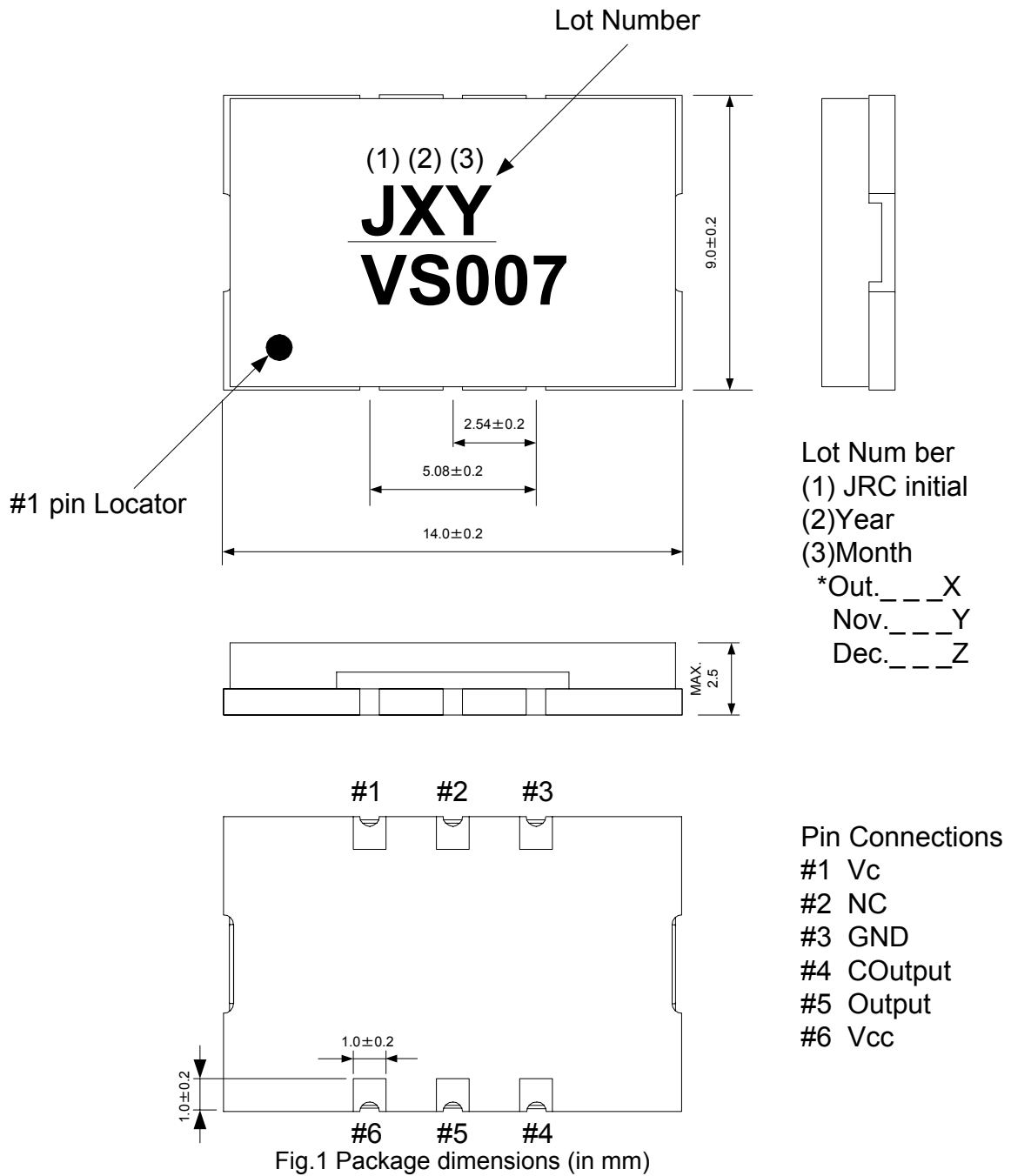


Fig.1 Package dimensions (in mm)

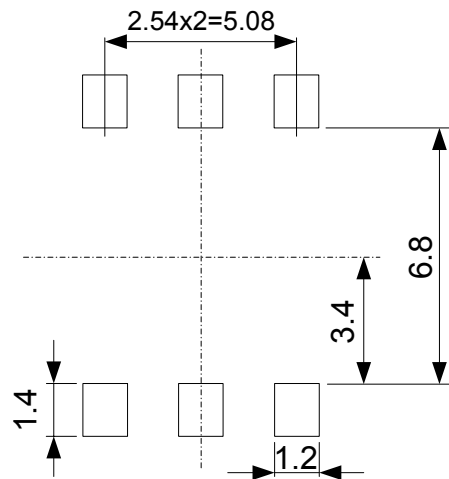


Fig.2 Desirable land area (in mm)

Notice

1. Use this component within operating temperature range. It might not be satisfied with electrical specification without operating temperature range. When it is used less than -30°C or more than $+85^{\circ}\text{C}$, it might be a cause of degradation or destruction of the component. Even if it endures during a short time, it causes degradation of qualification.
2. When soldering iron is used, solder with the temperature at the tip of soldering iron: 350°C max., the time of soldering: 10 seconds max., the power of soldering iron: 30W max..
3. Notice that the allowed time of soldering with soldering iron is accumulated time, when soldering is repeated.
4. As rapid temperature change for cleaning after reflow soldering might be a cause of destruction clean this component after confirming that temperature of this component goes down to room temperature.
5. Confirm that there are not any influence for qualification to this component in mounting on PCB when this component is cleaned.
6. As it might be a cause of degradation or destruction to apply static electricity to this component, do not apply static electricity or excessive voltage while assembling and measuring. And do not transport this component with bare hand.

Note

1. This specification specifies the quality of this component as a single unit. Make sure that this component is evaluated and confirmed against this specification when it is mounted to your products.

