

PRECISION CRYSTAL OSCILLATOR

SHO-3225



Applications

- Wireless-LAN / PLC modem / WiMax / Mobile Communications etc.

Features

- Ceramic package / Dimensions (3.2×2.5×0.9)
- High stability $\pm 10\text{ppm}/-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Low current consumption
- 3.1mA typ. (40MHz Vdd=+2.5V)
- Low phase noise, Low jitter
- CMOS output with Tri-state function

Specifications

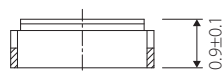
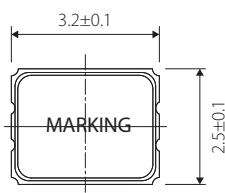


Model	SHO-3225
Frequency range	2.5~60.0MHz
Nominal frequency (MHz)	5, 10, 12, 16, 20, 24, 32, 40, 54
Storage temperature range	-40~+85°C
Operating temperature range	-40~+85°C
Frequency stability	$\pm 10 \times 10^{-6}$, $\pm 15 \times 10^{-6} \times 1$
Power supply voltage (Vdd)	+1.8, +2.5, +3.0V, +3.3V DC $\pm 10\%$
Current consumption	7mA max. / 10uA max (Standby)
Output level	C-MOS
Load	15pF max.
Output voltage level	Vol: 10%Vdd max. / VoH: 90%Vdd min.
Rise & Fall time	5ns max. / 10%Vdd ~ 90%Vdd
Duty cycle	45%~55% at 1/2Vdd
Phase Noise / Jitter	-145dBc / Hz Typ. at 10kHz offset / 1 σ 3ps typ.
Tri-state Function	#1: Floating or "H"→Output enable / #1: "L"→Output disable (Hi-Z)

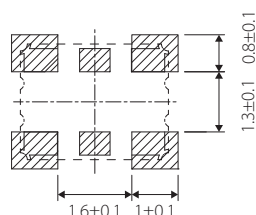
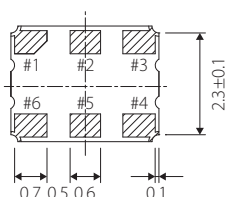
* Frequency stability include initial tolerance, temperature characteristics, suppli voltage & load stability, reflow frequency shift, aging (1 year@25°C)

Package quantity: 3,000pcs max./Reel.

Outline and Dimensions [unit:mm]



Land Pattern(REFERENCE)



Terminal	Connection
#1	Tri-state
#2	N.C
#3	GND
#4	OUTPUT
#5	N.C
#6	Vcc

Tri-state Function	
Tri-state pin	Output
High or Floating	Active
Low	Hi-Impedance