



■ Features

- Small SMD seam sealed clock crystal oscillator units.
- Designed for automatic mounting and reflow soldering.
- Tri-State function available.
- Supply voltage range : 1.8 V ~ 3.3 V.
- High stability, low jitter, low power consumption.

■ Applications

Digital Electronics, Consumer Products, Mobile Communications,  
and Automotive

■ Specifications

Output Type	CMOS	
Supply Voltage	1.8 V	2.5 V , 2.8 V , 3.3 V
Frequency range	1 ~ 60 MHz	
Oscillation Mode	Fundamental	
Frequency Stability	± 25 ppm , ± 50 ppm	
Operating Temperature Range	-10 ~ + 70 °C , - 40 ~ + 85 °C	
Storage Temperature Range	- 55 ~ + 125 °C	
Voltage Vol ( Max. ) / Voh ( Min. )	0.1 VDD / 0.9 VDD	
Rise ( Tr ) / Fall ( Tf ) Time	8 ns Max.	
Supply Current	20 mA Max.	
Symmetry	40 ~ 55 % , 40 ~ 60 %	
Start-up Time	5 ms Max.	
Phase Jitter ( 12 KHz ~ 20 MHz )	1 ps Max.	
Aging ( at 25 °C )	± 3 ppm / year Max.	

■ Dimensions & Land pattern (unit: mm)

