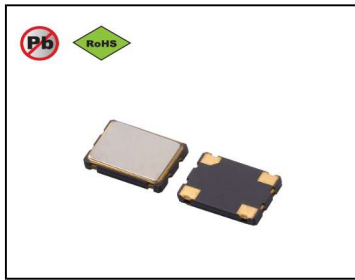
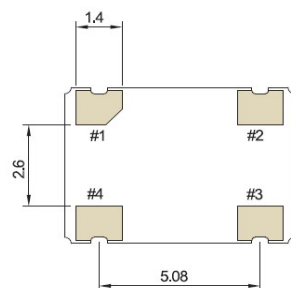
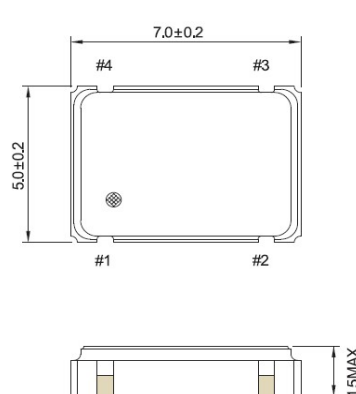


KS07**CLOCK OSCILLATOR****■ Spread Spectrum SMD OSC 7.0×5.0mm**

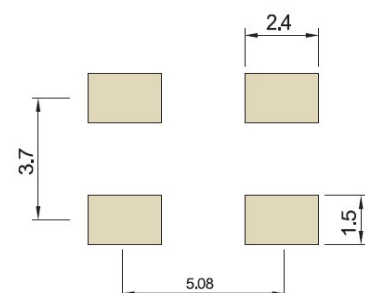
- Miniature Ceramic Surface Mount package
- Advanced programmable PLL and Spread Spectrum design
- 16 modulation magnitudes (± 0.125 to $\pm 2.0\%$ or -0.25 to -4.0%)
- Programmable output drive (4mA, 8mA, 16mA)
- Applications : Consumer electronics, Industrial applications, Telecommunications, Network equipment

■ Standard Specification

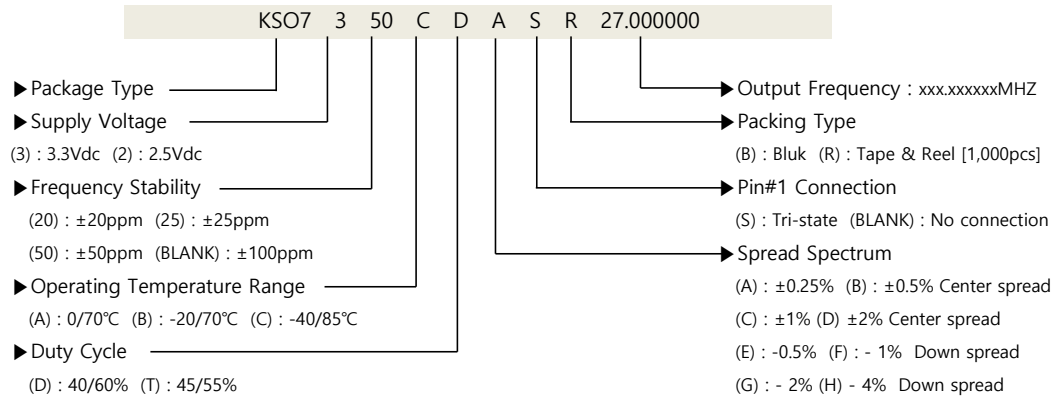
Frequency range	10MHz to 160MHz	10MHz to 200MHz
Supply voltage	2.5V	3.3V
Current consumption	20mA Max	25mA Max
Center spread	$\pm 0.25\%$, $\pm 0.5\%$, $\pm 1\%$, $\pm 2\%$	
Down spread	-0.5% , -1% , -2% , -4%	
Frequency Stability	$\pm 25\text{ppm}$, $\pm 50\text{ppm}$, $\pm 100\text{ppm}$	
Operating Temperature Range	-20 to 70°C , -40 to 85°C	
Storage Temperature Range	-55 to 125°C	
Output load condition	CMOS 15pF	
Symmetry (Duty)	$50\% \pm 10\%$ or please specify	
Output rise and fall time (Tr /Tf)	10ns Max	
Output high level	$90\% V_{dd}$ Min	
Output low level	$10\% V_{dd}$ Max	
Pin 1	Enable input voltage	$70\% V_{dd}$ Min or N.C
Function	Disable input voltage	$30\% V_{dd}$ Max
Oscillation start up time	5ms Max	
Aging (Initial first year)	$\pm 3\text{ppm}$ Max	
Period jitter (pk-pk)	70ps Max	

■ Dimensions (mm)**CONNECTION**

- #1 N.C or EN/DIS(Tri-State)
 #2 GND
 #3 OUTPUT
 #4 Vdd

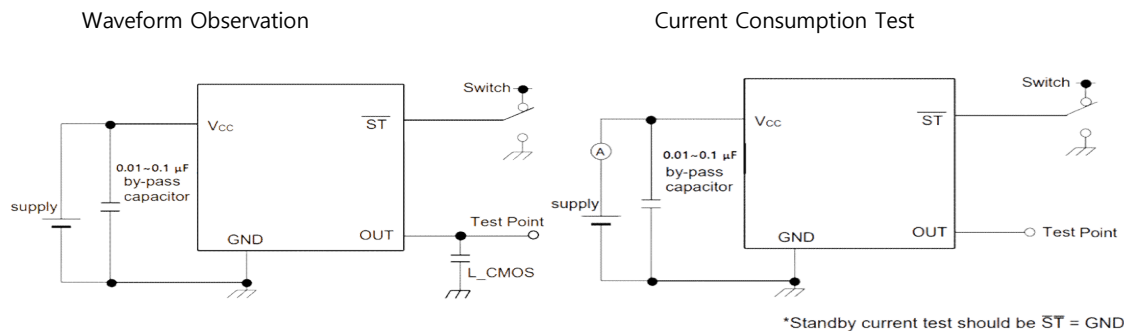
• Recommended Soldering Pattern

Part Numbering Guide

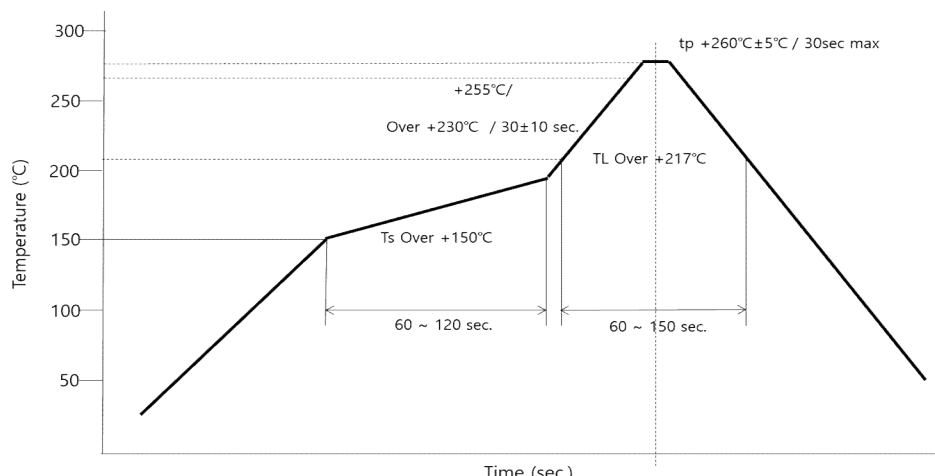


*Please contact us for other specifications.

Test Circuit Information



Recommendation reflow condition



- (1) Reflow soldering heat resistance
 Peak Temp. : 265°C, 30sec max.
 Heating : 230°C or higher, 40sec.
 Preheating : 150~180°C, 120sec.
 Reflow passage times : 2 times

- (2) Manual soldering heat resistance
 Pressing a soldering iron of 350°C on the terminal electrode
 Soldering touch time : 4sec.
 Manual soldering times : 2 times