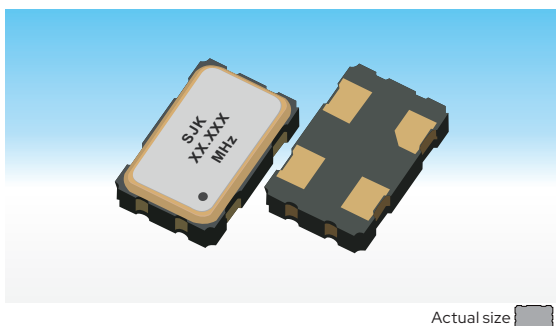


Spread Spectrum Crystal Oscillator

5Z Series SMD5032 EMI Reduction Crystal Oscillator 3~166MHz O: CMOS Size: 5.0×3.2×1.2mm



Features

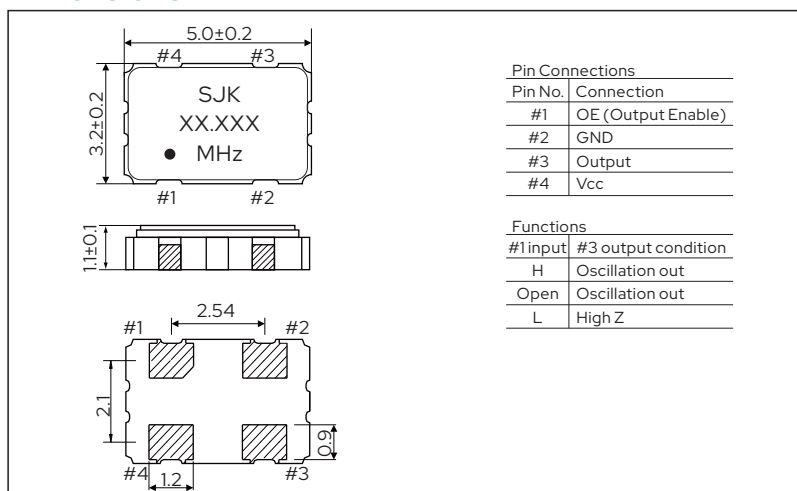
- SMD5032 EMI reduction spread spectrum clock oscillator
- Reduce electromagnetic interference (EMI) by approx. 3dB to 18dB
- 3-state function available
- Supply voltage: 1.8V /2.5V /3.3V
- CMOS output with frequency range: 3MHz~166MHz
- Application for Media player, Surveillance, Medical equipment, IP camera, LED module, etc.
- RoHS Compliant /Pb Free



Standard Specifications

Item	Type	5Z Series SMD5032 EMI Reduction Spread Spectrum Clock Oscillator					
Output Type		CMOS					
Load condition		15pF, or specify					
Frequency Range		16MHz~40MHz			3MHz~166MHz		
Supply Voltage		1.8V /2.5V /3.3V			2.5V /3.3V		
Frequency Stability (All Condition)		±25ppm, ±30ppm, ±50ppm, ±100ppm, or specify					
Current Consumption		6mA max.			30mA max.		
Stand-by Current		1.2mA max.			2.0mA max.		
Spread Type	Down Spread	-2.00%	-1.50%	-1.00%	-0.80%	-0.25%~-4.0% in 0.25% steps	
	Center Spread	±1.00%	±0.75%	±0.50%	±0.40%	±0.125%~±2.0% in ±0.125% steps	
EMI Reduction		3dB~12dB(Typ.) for the main mode			12dB~18dB(Typ.) for the main mode		
Modulation Carrier Frequency		20KHz~52KHz			30KHz~40KHz		
Symmetry		40~60%					
0 Level Output Voltage (V _{OL})		0.1V _{CC} max.					
1 Level Output Voltage (V _{OH})		0.9V _{CC} min.					
OE Pin 0 Level Input Voltage (V _{IL})		0.3V _{CC} max.					
OE Pin 1 Level Input Voltage (V _{IH})		0.7V _{CC} min.					
Rise Time / Fall Time		10ns max.			5ns max.		
Start-up Time		5ms max.					
Operating Temperature Range		-20~+70°C, -40~+55°C, or specify					

Dimensions



Recommended Land Pattern [mm]

