

GEYER KXO-55 Features and Applications:

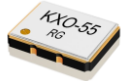
- SSO Spread Spectrum Low EMI Oscillator
- Supply voltage range +1.8 V ~ +3.6 V
- Package size: 3.2 x 2.5 x 1.0 mm, 4 pad footprint
- Frequency range: 16.0 ~ 40.0 MHz
- Reduces electromagnetic interference (EMI) by approx. 3 dB to 12 dB
- Moisture Sensitivity Level, MSL Level 1
- Recommended for Digital Cameras, Mobile Phones, LCDs, Laptops, etc
- For further requirements, please contact us



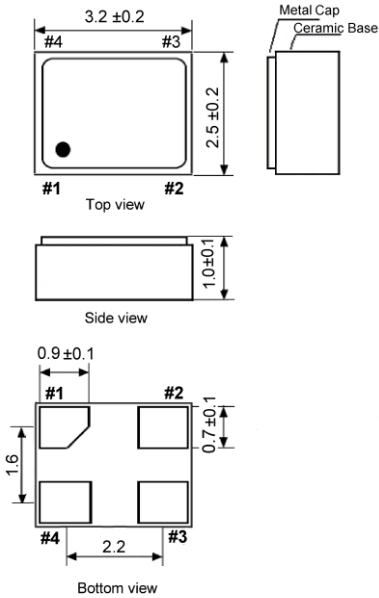
SSO Spread Spectrum Oscillator SMD-version

+1.8 / +2.5 / +3.3 V

part no.	12.xxxxx		
model	KXO-55		
frequency range	16.0 ~ 40.0 MHz		
frequency stability (parameter excludes modulation)	±25 ppm, ±50 ppm, ±100 ppm		
operating temperature	-20° ~ +70°C, -40° ~ +85°C, -40° ~ +125°C available		
storage temperature	-55° ~ +125°C		
symmetry (duty)	50 % ±10 %		
supply voltage V _{DD}	+1.8 V ±10 %	+2.5 V ±10 %	+3.3 V ±10 %
supply current max.	4 mA	5 mA	6 mA
rise & fall time max.	10 ns	7 ns	7 ns
spread type	C1.0	C0.75	C0.5
center spread %	±1.0	±0.75	±0.5
spread type	D2.0	D1.5	D1.0
down spread %	-2.0	-1.5	-1.0
Total spread%	2.0	1.5	1.0
modulation frequency	20.9 ~ 52.4 kHz		
"O" level max.; "1" level min.	VOL: 10 % V _{DD} ; VOH: 90 % V _{DD}		
output load	15 pF HCMOS		
start up time max	5 ms		
contents of reel	3000 pcs.		



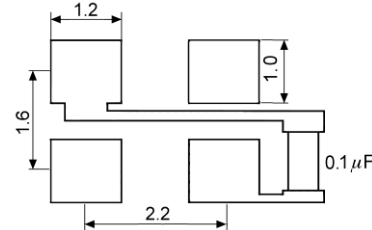
Dimensions (mm):



PIN	Connection
1	"L"(0V) "H" or OPEN
2	GND
3	Z OUTPUT
4	V _{DD}

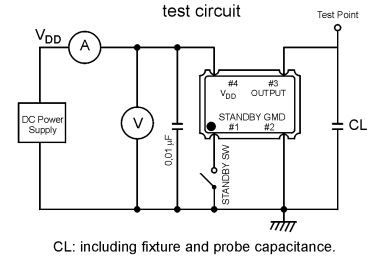
Z= High Impedance

Suggested soldering pad:

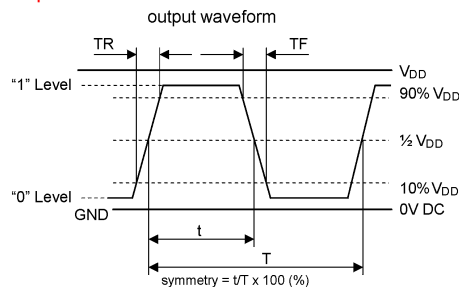


Note:
Capacitors of value 0,1 µF and 10 µF
between V_{DD} and GND are recommended.

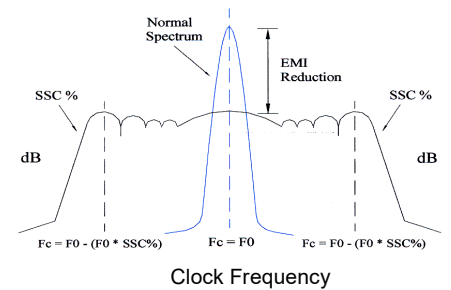
Test circuit:



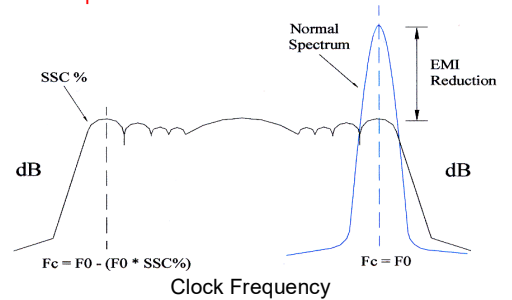
Output waveform:



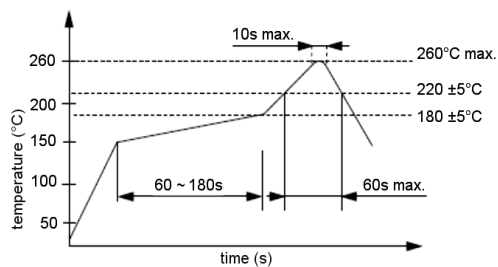
Center Spread:



Down Spread:



Reflow soldering condition:



Tape specification:

