

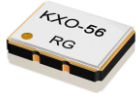
GEYER KXO-56T Features and Applications:

- SSO Spread Spectrum Low EMI Oscillator
- Supply voltage range +1.8 V ~ +3.6 V
- Package size: 5.0 x 3.2 x 1.3 mm, 4 pad footprint
- Frequency range: 13.0 ~ 160.0 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

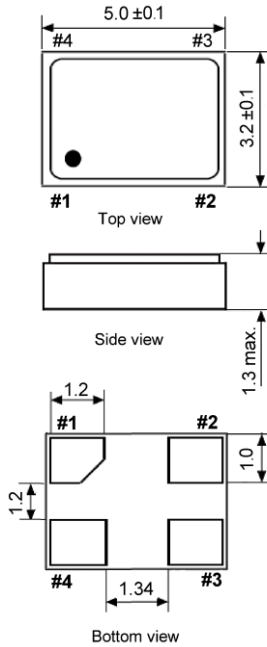


SSO Spread Spectrum Oscillator SMD-version +1.8 / +2.5 / +3.3 V

part no.	12.xxxxx			
model	KXO-56T			
frequency range	13.0 ~ 160.0 MHz			
frequency stability (parameter excludes modulation)	±20 ppm, ±50 ppm, ±100 ppm			
operating temperature	-40° ~ +85°C			
storage temperature	-55° ~ +125°C			
symmetry (duty)	40 % ~ 60 %			
spread type	C1	C2	C3	C4
center spread %	±0.125; ±0.25; ±0.375; ±0.5	±0.625; ±0.75; ±0.875; ±1.0	±1.125; ±1.25; ±1.375; ±1.5	±1.625; ±1.75; ±1.875; ±2.0
spread type	D1	D2	D3	D4
down spread %	- 0.25; - 0.5; -0.75; - 1.0	- 1.25; - 1.5; -1.75; - 2.0	- 2.25; - 2.5; -2.75; - 3.0	- 3.25; - 3.5; -3.75; - 4.0
supply voltage range	+1.8 V ~ +3.6 V DC			
supply voltage V _{DD}	+1.8 V ±10 %; +2.5 V ±10 %; +3.3 V ±10 %			
supply current max.	20 mA			
rise & fall time max.	10 ns			
"O" level max.; "1" level min.	VOL: 10 % V _{DD} ; VOH: 90 % V _{DD}			
output load	15 pF HCMOS			
start-up time max	10 ms			
period jitter max.	100 ps			
contents of reel	1000 pcs.			



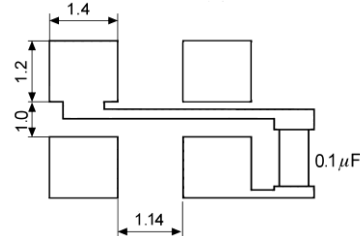
Dimensions (mm):



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

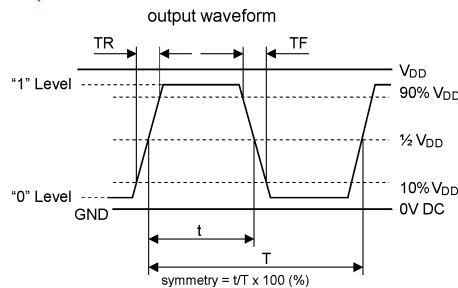
Z= High Impedance

Suggested soldering pad:

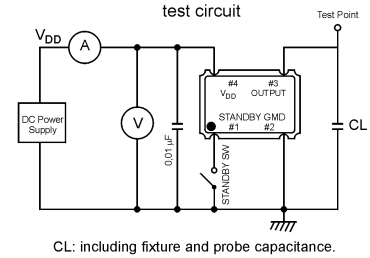


Note:
Capacitors of value 0,1 µF and 10 µF
between V_{DD} and GND are recommended.

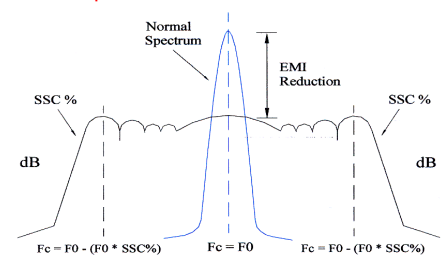
Output waveform:



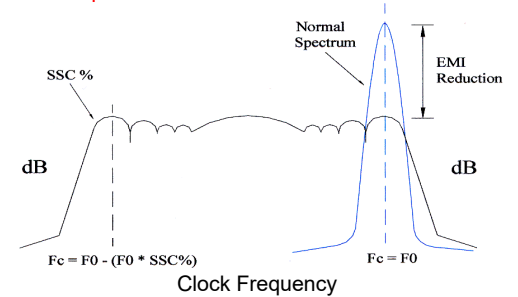
Test circuit:



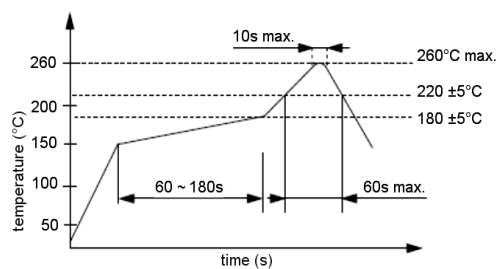
Center Spread:



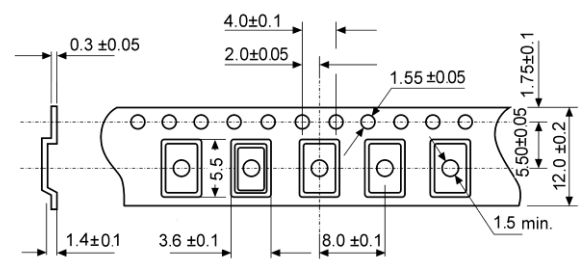
Down Spread:



Reflow soldering condition:



Tape specification:



reel diameter 178 mm