

• SCO-53 Series 5.0X3.2X1.3 mm

FEATURES

- 5X3.2X1.3 Miniature Package
- Tri-State Enable/Disable
- TTL/HCMOS compatible
- Tape and Reel
- IR Re-flow
- 5.0V Input Voltage

The SCO-53 series is an ultra miniature package clock oscillator with size of 5.0X3.2X1.3mm. It is mainly used in portable PC and telecommunication devices and equipment.



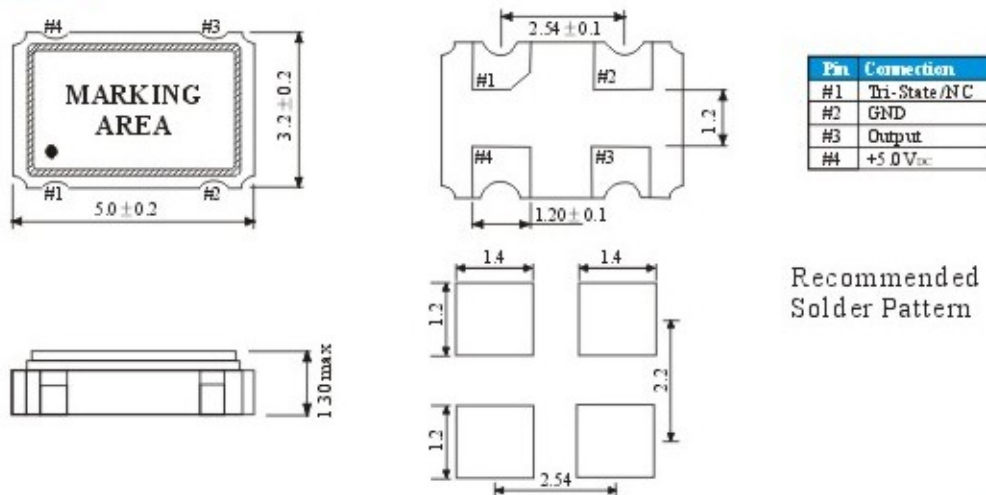
ELECTRICAL SPECIFICATIONS

Parameter	Condition	SCO-53	
Frequency Range	F ₀	1.544MHz~125.000MHz	
Frequency Stability*	All Condition*	±25ppm, ±50ppm, ±100ppm	
Operating Temperature Range	T _{OPR}	0°C ~ 70°C (-40°C ~ +85°C option)	
Storage Temperature Range	T _{STRG}	-55°C ~ +125°C	
Power Supply Voltage	V _{DD}	5.0V +/-10%	
Aging (First Year)	25°C ±3°C	±5ppm	
Supply Current	I _{DD}	1.544MHz to 9.999MHz	15mA Max
		10.000MHz to 34.999MHz	20mA Max
		35.000MHz to 49.999MHz	35mA Max
		50.000MHz to 125.000MHz	40mA Max
Output Symmetry	Sym	At 1/2V _{DD}	40/60% (45/55% Option)
Rise Time	T _r	10%V _{DD} ~90%V _{DD}	5 nS Max
Fall Time	T _f	90%V _{DD} ~10%V _{DD}	5 nS Max
Output Voltage	V _{OH}		90% V _{DD} min
	V _{OL}		10% V _{DD} max
Output Load	HCMOS Load		30pF Max(15pF typ)
Start-up Time	T _s		10mS Max
Pin 1, tri-state function			Pin 1=H or open....Output active at pin 3 Pin 1=L.....High impedance at pin 3

*Include: 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration

DIMENSIONS

Unit: mm



***Note: A 0.01uF bypass capacitor should be placed between V_{DD}(Pin4) and GND(Pin2) to Minimize power supply line noise