

• SCO-33 Series

7.0X5.0X1.5mm

FEATURES

- Miniature Package
- Tri-State Enable/Disable
- TTL/HCMOS compatible
- Tape and Reel
- IR Re-flow
- 5.0V Input Voltage

The SCO-33 series is an ultra miniature package clock oscillator with size of 7.0X5.0X1.5mm. It is mainly used in portable PC and telecommunication devices and equipment.



ELECTRICAL SPECIFICATIONS

Parameter		Condition	SCO-33
Frequency Range	F ₀		1MHz~125.00MHz
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}	1.000 to 23.999MHz	20mA Max
		24.000MHz to 49.999MHz	30mA Max
		50.000MHz to 69.999MHz	40mA Max
		70.000MHz to 125.000MHz	60mA 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	TTL Load		1~10TTL
	HCMOS Load		30pF Max(15pF type)
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

Pin	Connection
#1	Tri-State/NC
#2	GND
#3	Output
#4	+5V _{DC}

Recommended Solder Pattern

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