

• SCO-43&46 Series

FEATURES

- J-Lead Plastic Surface Mount
- SG-615 compatible
- Wide Frequency Range
- Low Cost
- Tri-State Enable/Disable
- 3.3V available

The SCO-43 series oscillator is J-Lead Plastic Tri-state Enable/Disable controlled Clock oscillator. SCO-46 series is with 3.3V power supply voltage. With J-Lead configuration and high resistance soldering temperature make it ideal for surface mount production.



Electrical Specifications

Parameter		Condition	SCO-43	SCO-46
Frequency Range	F ₀		1MHz~66.667MHz	
Frequency Stability*			±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%	3.3V +/-10%
Aging (First Year)		25°C ±3°C	±5ppm	
Supply Current	I _{DD}	1.000MHz to 23.999MHz	20mA Max	15mA Max
		24.000MHz to 49.999MHz	30mA Max	20mA Max
		50.000MHz to 66.667MHz	40mA Max	30mA Max
Output Symmetry	Sym	AT 1/2V _{DD}	40/60% (45/55% Option)	
Rise time	T _r	10%V _{DD} ~ 90%V _{DD}	8 nS Max	5 nS Max
Fall Time	T _f	90%V _{DD} ~ 10%V _{DD}	7 nS Max	5 nS Max
Output Voltage	V _{OH}		80% V _{DD} min	
	V _{OL}		20% V _{DD} max	
Output load	TTL Load		1~10LSTTL	
	HCMOS Load		30pF Max	15pF Max
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

Recommended Solder Pattern

Enable/Disable Function	
Input (Pin1)	Output (Pin3)
Open	Enable
V _{DD} ≥ 2.2V _{DC}	Enable
V _{IN} ≤ 0.8V _{DC}	Disable

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

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