

SX053L3A161-150.000M Datasheet

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DiGi Electronics Part Number	SX053L3A161-150.000M-DG
Manufacturer	Suntsu Electronics, Inc.
Manufacturer Product Number	SX053L3A161-150.000M
Description	XTAL OSC XO 150.0000MHZ LVDS SMD
Detailed Description	150 MHz XO (Standard) LVDS Oscillator 3.3V Enable /Disable 6-SMD, No Lead



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Purchase and inquiry

Manufacturer Product Number:

SX053L3A161-150.000M

Series:

SX053L

Base Resonator:

Crystal

Frequency:

150 MHz

Output:

LVDS

Frequency Stability:

±50ppm

Operating Temperature:

-10°C ~ 60°C

Current - Supply (Max):

60mA

Mounting Type:

Surface Mount

Size / Dimension:

0.197" L x 0.126" W (5.00mm x 3.20mm)

Current - Supply (Disable) (Max):

-

Manufacturer:

Suntsu Electronics, Inc.

Product Status:

Active

Type:

XO (Standard)

Function:

Enable/Disable

Voltage - Supply:

3.3V

Absolute Pull Range (APR):

-

Spread Spectrum Bandwidth:

-

Ratings:

-

Package / Case:

6-SMD, No Lead

Height - Seated (Max):

0.047" (1.20mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

HTSUS:

8542.39.0001

ECCN:

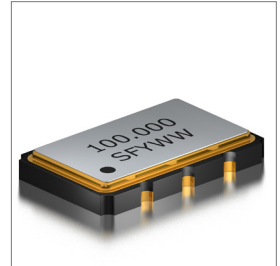
EAR99

Features

- ± 20 ppm (Frequency Stability) Available
- Ceramic Package
- LVDS
- Tape and Reel

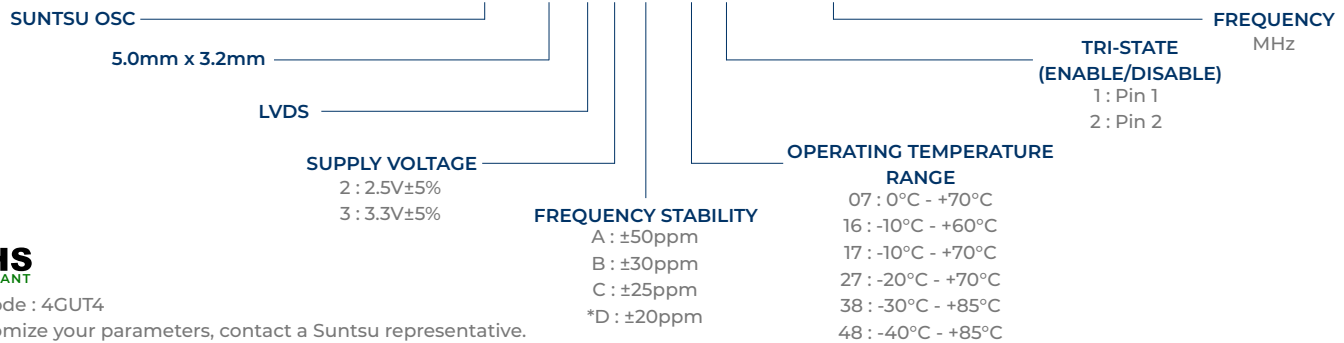
Applications

- Fiber Channel
- Gigabit Ethernet
- PCI Express



Part Numbering Guide

SXO 53 L 3 A 48 1 - 100.000M



Cage Code : 4GUT4

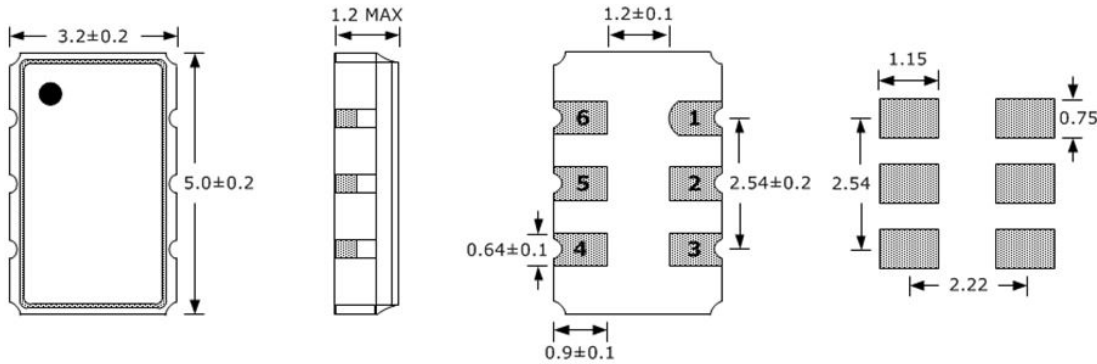
To customize your parameters, contact a Suntsu representative.

* For Frequency stability option D, contact a Suntsu representative.

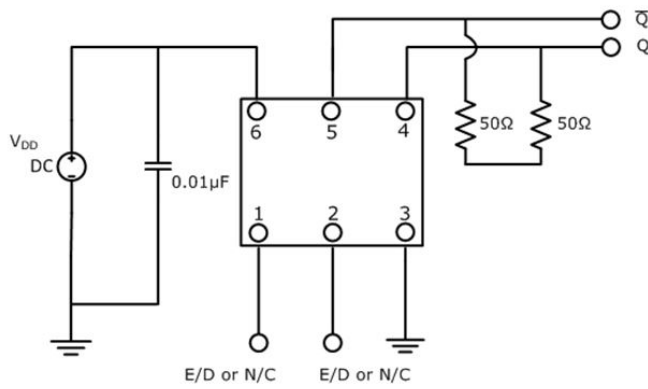
Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	MHz	80		170	
Frequency Stability (Includes Initial Tolerance at 25°C, Frequency Stability over Operating Temperature, Output Load Change, Supply Voltage Change, and First Year Aging at 25°C.)	ppm	-20		+20	See part numbering guide for options
Operating Temperature	°C	-40		+85	See part numbering guide for options
Storage Temperature	°C	-55		+125	
Supply Voltage (V _{DD}) - 2.5V Option	V	2.375	2.5	2.625	
Supply Voltage (V _{DD}) - 3.3V Option	V	3.135	3.3	3.465	
Current (I _{DD}) - 2.5V Option	mA			50	
Current (I _{DD}) - 3.3V Option	mA			60	
Output Load (LVDS)	Ω			100	
Output Logic Levels High (V _{OH})	V		1.43	1.6	
Output Logic Levels Low (V _{OL})	V	0.9	1.1		
Differential Output Voltage (V _{OD})	mV	247	330	454	
Differential Output Error (ΔV _{OD})	mV			50	
Offset Voltage (V _{OS})	V	1.125	1.250	1.375	
Offset Error (ΔV _{OS})	mV			50	
Rise (TR) and Fall (TF) Time	ns		0.4	0.8	
Symmetry (Duty Cycle)	%	45	50	55	
Tri-State Input Voltage - Enable	V	0.7*V _{DD}			No Connection
Tri-State Input Voltage - Disable	V			0.3*V _{DD}	
Start-Up Time	ms			10	
Phase Jitter (12kHz ~ 20MHz)	ps		0.4	1	

Outline Drawing & Land Pattern

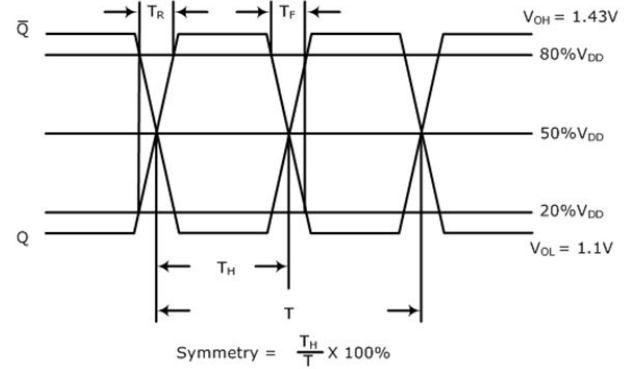
All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



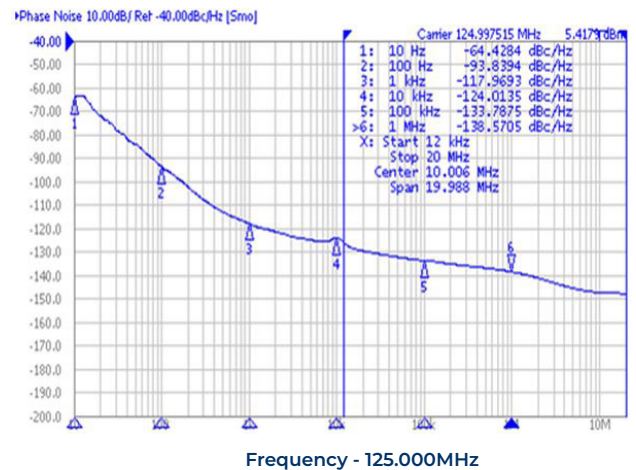
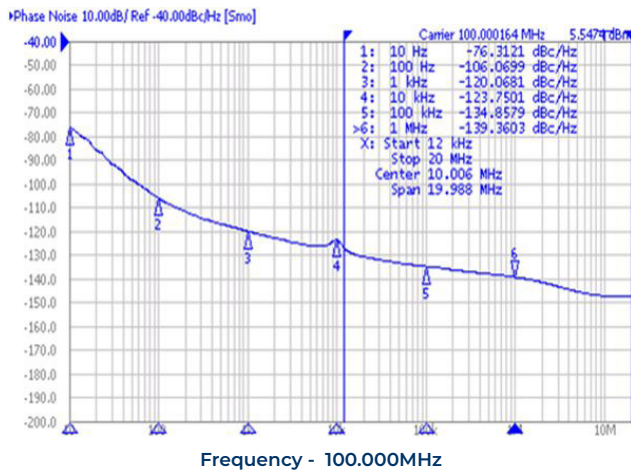
Test Circuit (LVDS)



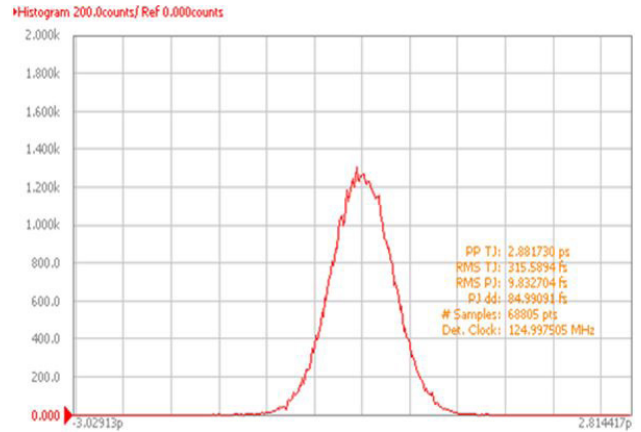
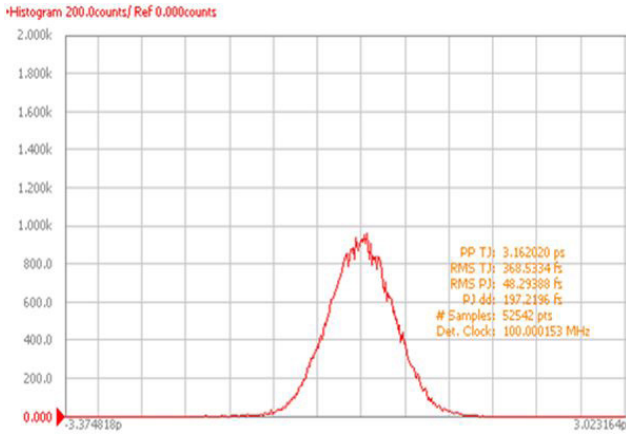
Waveform (LVDS)



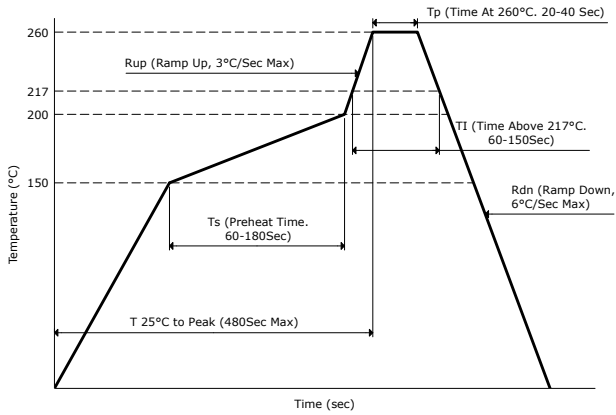
Typical Phase Noise Performance (Measured By Agilent E5052A)



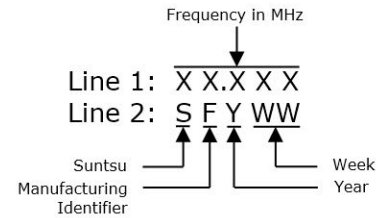
Typical Jitter Performance (Measured By Agilent E5052A)



Reflow Profile



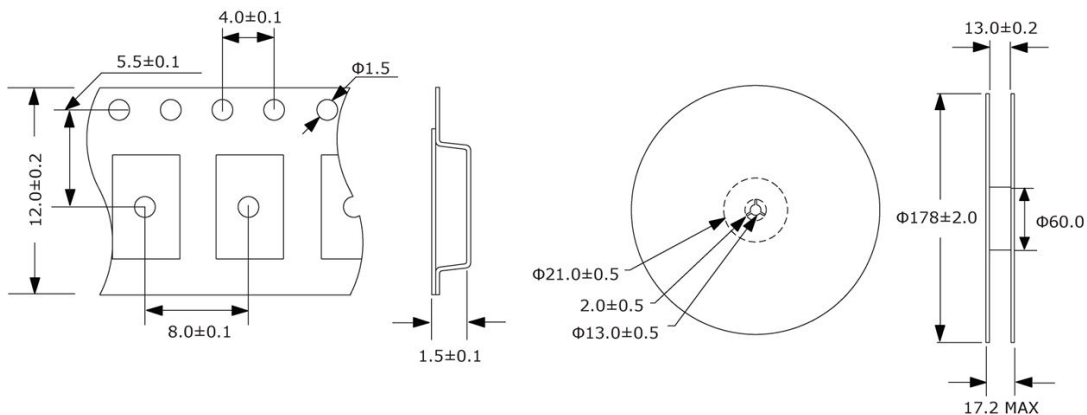
Part Marking



Tape And Reel Dimensions

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.

1,000pcs/Reel





Environmental Specifications		Mechanical Specifications	
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Mechanical Shock	MIL-STD-202, Method 213, Condition B
Fine Leak Test	MIL-STD-883, Method 1014, Condition A	Vibration	MIL-STD-883, Method 2007, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C	Moisture Resistance	MIL-STD-883, Method 1004
Solderability	MIL-STD-883, Method 2003	Resistance to Solvents	MIL-STD-202, Method 215
Moisture Sensitivity	J-STD-020, MSL 1	Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K

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