

Clock Oscillator (CMOS)

SCO-5032

**General Description**

Ceramic packaged oscillator with good mechanical resistance and compact size. It is available with many voltage supply options and wide frequency range

Features

High precision characteristic covering up to wide frequency range.
Designed for automatic mounting and reflow soldering.
Stand-by function for output: Tri-state output.
Supply voltage range : 1.5V to 5 V.
High stability, low jitter, low power consumption.

Main applications

Wireless communication, PC, HDTV, ISDN, Gb Ethernet

Electrical characteristics

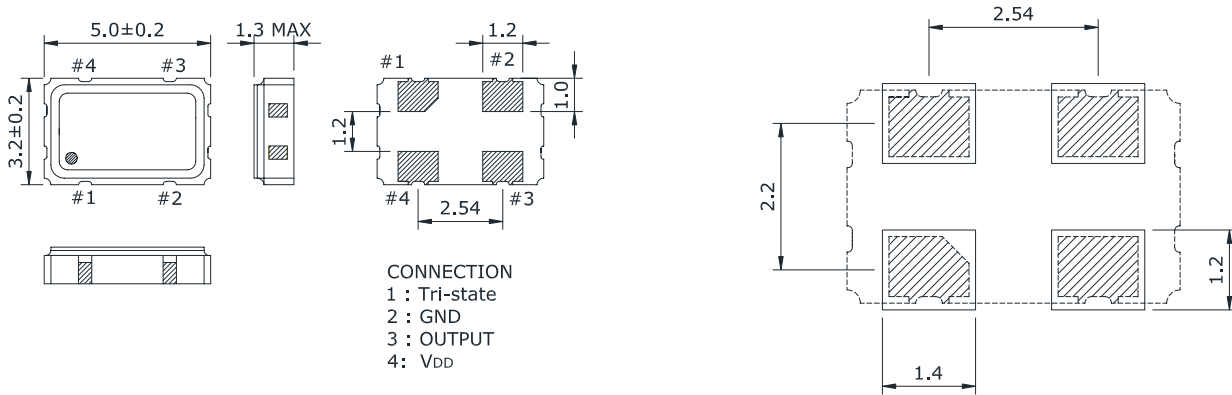
Item	Values	
Part number	SCO-5032	
Output Waveform	SQUARED	
Supply voltage	+1.5V , +1.8V , +2.5V , +3.3V , +5.0V [1]	
Frequency range	32.768KHz , 0.75 - 250MHz	
Current consumption	0.7mA (1.5V), 1.5mA (2.5V , 3.3V) 3mA(1.8V), 4mA(2.5V), 5mA(3.3V), 7mA(5V) 4mA(1.8V), 5mA(2.5V), 7mA(3.3V), 10mA(5V) 3mA(1.8V), 17mA(2.5V), 20mA(3.3V),25mA(5V) 7mA(1.8V), 20mA(2.5V), 25mA(3.3V) 20mA(1.8V), 30mA(2.5V), 40mA(3.3V) 37mA(1.8V), 50mA(2.5V), 70mA(3.3V) 58mA(2.5V), 75mA(3.3V)	32.768KHz 0.75 MHz to 25.000 MHz 25.001 MHz to 40.000 MHz 40.001 MHz to 80.000 MHz 80.001 MHz to 100.000 MHz 100.001 MHz to 125.000 MHz 125.001 MHz to 160.000 MHz 160.001 MHz to 250.000 MHz
Operating temperature range	-20°C / +70°C or -40 / +85°C or user spec	
Storage temperature range	-55°C / +125°C	
Frequency stability	<±20 , <±25 , <±50ppm overall or user spec	
Output load	TTL, CMOS (15pF), option 50pF	
Duty cycle	40% ... 60%, option 45%...55%	
VOH / VOL	90% Vcc / 10% Vcc	
Tr / Tf	10ns max (except 32.768KHz) or user spec	
Option Enable-Disable/Tri-state	available (Enable @ >70% Vcc , Disable at <30% Vcc)	
Start up time	5ms max	
Phase jitter (12KHz - 20MHz)	1ps RMS max	
Period jitter (pk-pk)	25ps max	
Aging	<±3ppm / year	

[1] 1.5V only for 32.768KHz. +5.0V only for >=0.75MHz

Clock Oscillator (CMOS)

SCO-5032

Dimensions



Part Number Generator

SCO-5032 **0** **D** **S** **A** **50** **A** **A** **-** **010.000000**
 0 1 2 3 4 5 6 7 - 8

0 : Type
SCO-5032

1 : Vcc
 0 = +1.5V
 1 = +1.8V
 2 = +2.5V
 3 = +3.3V
 5 = +5.0V

2 : Duty cycle
 blank = 40% - 60%
 D = 45% - 55%

3 : Pin #1 Option
 blank = not connected
 S = En/Disable - TriState

4 : Op. temp. range
 blank = -20/+70
 A = -40/+85

5 : Stability overall
 blank < ±100ppm
 50 < ±50ppm
 25 < ±25ppm
 20 < ±20ppm

6 : Tolerance
 blank = not specified
 D < ±15ppm
 E < ±10ppm

7 : Stability in temperature
 blank = not specified
 H < ±35ppm
 L < ±25ppm
 M < ±20ppm
 N < ±15ppm
 P < ±10ppm

8 : Frequency (MHz)
 □□□.□□□□□□
 max 10 digits including comma

Remark : specifications subject to change without prior notice. Please confirm with our sales