

## Clock Oscillator (CMOS)

**SCO-3225****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 : 0.9V to 5V  
 High stability, low jitter, low power consumption.

**Main applications**

Wireless communication, Bluetooth, PC, HDTV, ISDN, Gb Ethernet

## Electrical characteristics

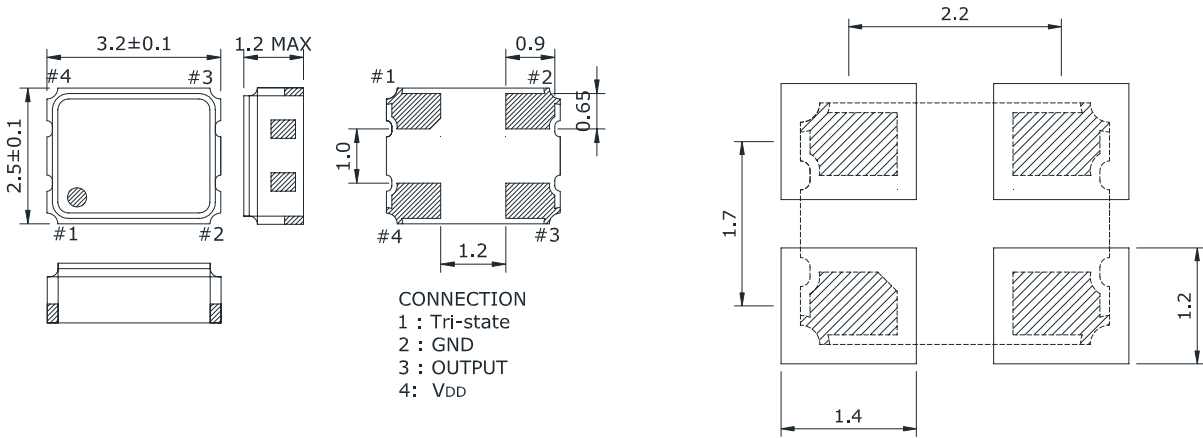
Item	Values
Part number	SCO-3225
Output Waveform	SQUARED
Supply voltage	+0.9V , +1.2V , +1.5V , +1.8V , +2.5V , +3.3V , +5.0V (1)
Frequency range	32.768KHz , 0.75 - 125MHz
Current consumption	10mA (0.9 - 1.8V , 15mA (2.5V) , 25mA (3.3V , 5.0V)
Operating temperature range	-20°C / +70°C or -40 / +85°C or user spec
Storage temperature range	-55°C / +125°C
Frequency stability	<±20 , <±25 , <±50ppm overall or user spec
Output load	TTL, CMOS (15pF)
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) for 32.768KHz only +1.5V, +1.8V, +2.5V, +3.3V

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## SCO-3225

### Dimensions



### Part Number Generator

**SCO-3225**    **0**    **D**    **S**    **A**    **50**    **A**    **A**    **-**    **010.000000**  
 0            1            2            3            4            5            6            7                       8

<b>0</b> : Type
SCO-5032
<b>1</b> : Vcc
6 = +0.9V 7 = +1.2V 0 = +1.5V 1 = +1.8V 2 = +2.5V 3 = +3.3V 5 = +5.0V
<b>2</b> : Duty cycle
blank = 40% - 60% D = 45% - 55%
<b>3</b> : Pin #1 Option
blank = not connected S = En/Disable - TriState
<b>4</b> : Op. temp. range
blank = -20/+70 A=-40/+85
<b>5</b> : Stability overall
blank < ±100ppm 50 < ±50ppm 25 < ±25ppm 20 < ±20ppm

<b>6</b> : Tolerance
blank = not specified D < ±15ppm E < ±10ppm
<b>7</b> : Stability in temperature
blank = not specified H < ±35ppm L < ±25ppm M < ±20ppm N < ±15ppm P < ±10ppm
<b>8</b> : Frequency (MHz)
□□□.□□□□□□□□ max 10 digits including comma

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