

Clock Oscillator (CMOS)

SCO-2520

**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

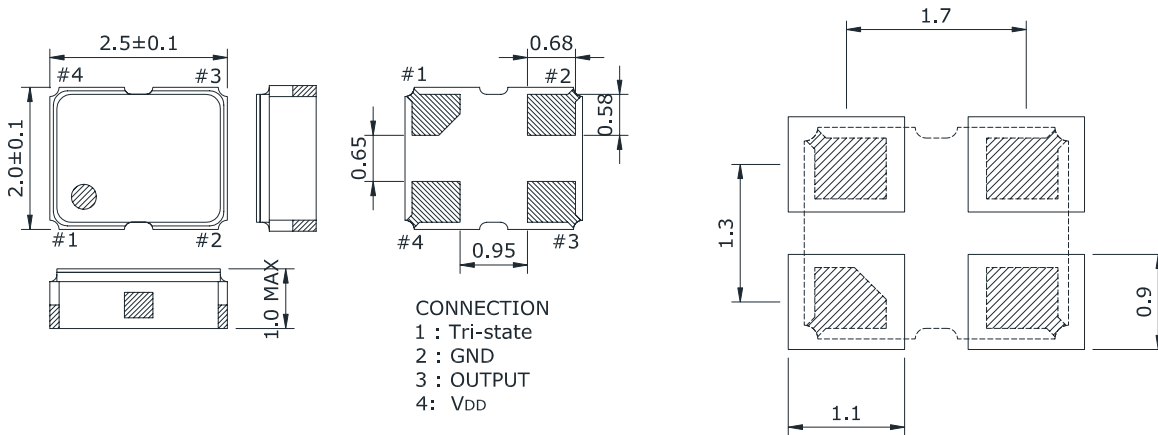
| Item | Values |
|---------------------------------|---|
| Part number | SCO-2520 |
| Output Waveform | SQUARED |
| Supply voltage | +0.9V , +1.2V , +1.5V , +1.8V , +2.5V , +3.3V , +5.0V [1] |
| Frequency range | 0.75 - 110MHz |
| Current consumption | 30mA max |
| Operating temperature range | -20°C / +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] 0.9V , 1.2V and 5.0V only in the range 1-60MHz

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Dimensions



Part Number Generator

SCO-2520 **0** **D** **S** **A** **50** **A** **A** **-** **010.000000**
 0 1 2 3 4 5 6 7 - 8

| |
|---|
| 0 : Type |
| SCO-5032 |
| 1 : Vcc |
| 6 = +0.9V 7 = +1.2V 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