

Clock Oscillator (CMOS)

SCO-2016

**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

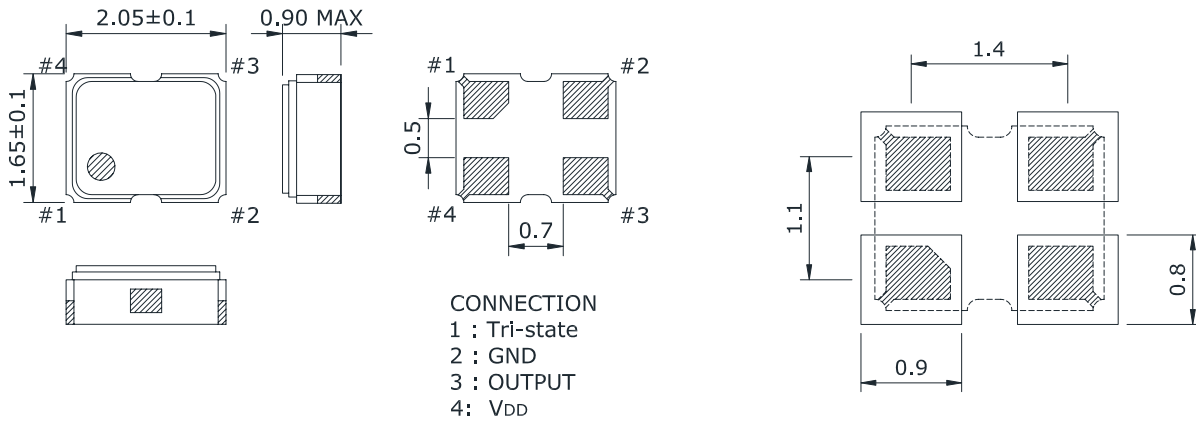
Wireless communication, Bluetooth, PC, HDTV, ISDN, Gb Ethernet

Electrical characteristics

| Item | Values |
|---------------------------------|---|
| Part number | SCO-2016 |
| Output Waveform | SQUARED |
| Supply voltage | +1.8V , +2.5V , +3.3V |
| Frequency range | 20 - 60 MHz |
| Current consumption | 20mA 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 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 |

SCO-2016

Dimensions



Part Number Generator

SCO-2016 **0** **D** **S** **A** **50** **A** **A** - **010.000000**
 0 1 2 3 4 5 6 7 8

0 : Type
SCO-5032

6 : Tolerance
blank = not specified

1 : Vcc
1 = +1.8V
2 = +2.5V
3 = +3.3V

7 : Stability in temperature
blank = not specified

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

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

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

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