

Clock Oscillator (CMOS)

SCO-06



General Description

Metal case packaged DIL8 oscillator for general purpose applications in electronics

Features

Wide frequency range
Extended temperature range
Heavy load option

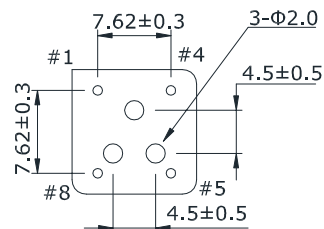
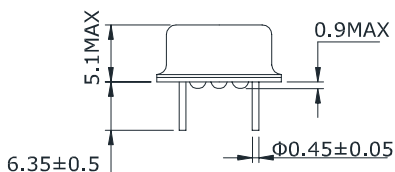
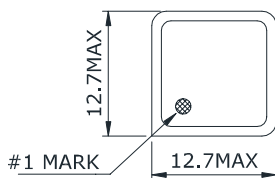
Main applications

Telecomm., PC, Monitor, Printer, FAX

Electrical characteristics

Item	Values
Part number	SCO-06
Output Waveform	SQUARED
Supply voltage	+3.3V , +5.0V
Frequency range	32.768KHz , 0.75 - 200MHz
Current consumption	up to 63mA [+3.3V] ; up to 80mA [+5.0V]
Operating temperature range	-40 / +85°C
Storage temperature range	-55°C / +125°C
Frequency stability	$\pm 50\text{ppm}$ 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 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	$\pm 3\text{ppm}$ / year

Dimensions



CONNECTION

- # 1 : N.C or Tri-state
- # 4 : GND
- # 5 : OUTPUT
- # 8 : VDD

Clock Oscillator (CMOS)

SCO-06

Part Number Generator

SCO-06 **0** **D** **S** **A** **50** **A** **A** **-** **010.000000**
 0 1 2 3 4 5 6 7 - 8

0 : Type
SCO-06

1 : Vcc
0 = +5.0V
3 = +3.3V
4 = +3.3V (50pF)
6 = +5.0V (50pF)

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