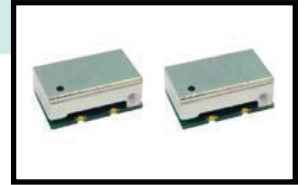


Clock Oscillator (CMOS)

SCO-1490

**General Description**

FR4 base oscillator with large degree of customization, in order to meet any customer needs

Features

Fully customizable
Tightest tolerance and stability option available
Low Jitter option available

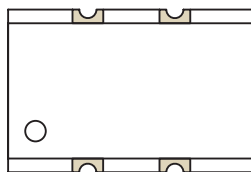
Main applications

Telecomm.

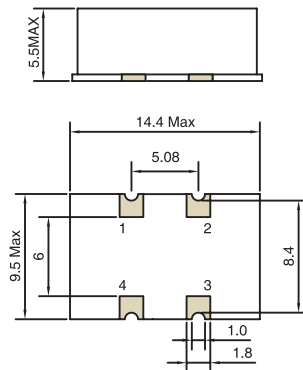
Electrical characteristics

Item	Values
Part number	SCO-1490
Output Waveform	SQUARED
Supply voltage	+2.5V , +3.3V , +5.0V
Frequency range	0.75 - 200MHz
Current consumption	45mA max
Operating temperature range	-40 / +85°C or user spec
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
Pin1 : Tri-state or NC
Pin2 : Ground
Pin3 : Output
Pin4 : Supply Voltage



Clock Oscillator (CMOS)

SCO-1490

Part Number Generator

SCO-1490 **0** **D** **S** **A** **50** **A** **A** - **010.000000**
 0 1 2 3 4 5 6 7 - 8

0 : Type
SCO-1490

1 : Vcc
0 = +5.0V
2 = +2.5V
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 $\pm 100\text{ppm}$
50 $\pm 50\text{ppm}$
25 $\pm 25\text{ppm}$
20 $\pm 20\text{ppm}$

6 : Tolerance
blank = not specified
D $\pm 15\text{ppm}$
E $\pm 10\text{ppm}$

7 : Stability in temperature
blank = not specified
H $\pm 35\text{ppm}$
L $\pm 25\text{ppm}$
M $\pm 20\text{ppm}$
N $\pm 15\text{ppm}$
P $\pm 10\text{ppm}$

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