

Clock Oscillator (CMOS)

SCO-20



General Description

Plastic moulded packaged oscillator for general purpose applications in electronics

Features

Wide frequency range
Extended temperature range
Heavy load option

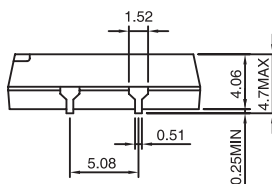
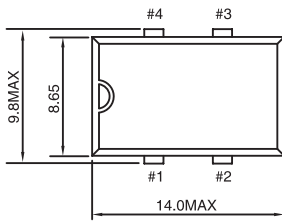
Main applications

Telecomm., PC, Monitor, Printer, FAX

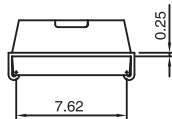
Electrical characteristics

Item	Values
Part number	SCO-20
Output Waveform	SQUARED
Supply voltage	+2.5V , +3.3V , +5.0V (up to 125 MHz)
Frequency range	32.768KHz , 0.75 - 200MHz
Current consumption	45mA max
Operating temperature range	-40 / +85°C
Storage temperature range	-55°C / +125°C
Frequency stability	<±50ppm 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	<±3ppm / year

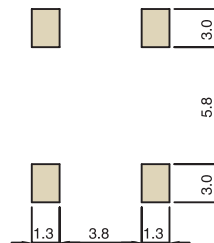
Dimensions



CONNECTION
#1 N.C or EN/DIS(Tri-State)
#2 GND
#3 OUTPUT
#4 Vdd



• Recommended Soldering Pattern



Clock Oscillator (CMOS)

SCO-20

Part Number Generator

SCO-20 0 D S A 50 - 010.000000
0 1 2 3 4 5 6

0 : Type
SCO-20

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

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 < ±100ppm
50 < ±50ppm
25 < ±25ppm

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