

Clock Oscillator (CMOS, Spread Spectrum)

SCO-7050SS



General Description

The SCO-7050SS is a ceramic packaged oscillator with spread spectrum figure to allow low EMI emissions

Features

EMI reduction
Programmable output drive level (4mA to 10mA)

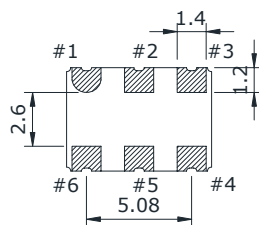
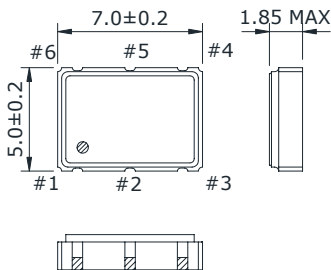
Main applications

Printer, LCD, DSC, Wireless-LAN, Fax, PC, Scanners, TV

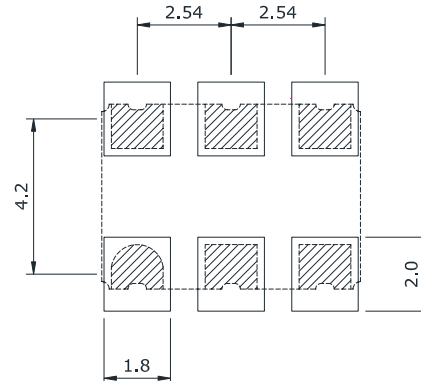
Electrical characteristics

Item	Values	
Part number	SCO-7050SS	
Output Waveform	SQUARED	
Supply voltage	+2.5V	+3.3V
Frequency range	10 - 160MHz	10 - 200 MHz
Current consumption	20mA max	25mA max
Center spread	±0.25%, ±0.5%, ±1%, ±2%	
Down spread	-0.5%, -1%, -2%, -4%	
Operating temperature range	-20°C / +70°C or -40 / +85°C or user spec	
Storage temperature range	-55°C / +125°C	
Frequency stability	<±100ppm overall or user spec	
Output load	TTL, CMOS (15pF) or user spec	
Duty cycle	40% ... 60%	
VOH / VOL	90% Vcc / 10% Vcc	
Tr / Tf	10ns max	
Option Enable-Disable/Tri-state	available (Enable @ >70% Vcc , Disable at <30% Vcc)	
Start up time	5ms max	
Period jitter (pk-pk)	70ps	
Aging	<±3ppm / year	

Dimensions



CONNECTION
 #1 : Tri-state
 #2 : SPREAD ON/FF
 #3 : GND
 #4 : OUTPUT(Q)
 #5 : OUTPUT(Q)
 #6 : VDD



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SCO-7050SS

Part Number Generator

SCO-7050SS **2** **A** **50** **A** **A** **-** **010.000000**
 0 1 2 3 4 5 6

0 : Type
SCO-7050SS

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

2 : Op. temp. range
blank = -20/+70
A = -40/+85

3 : Stability overall
blank < ±100ppm
50 < ±50ppm
25 < ±25ppm

4 : Center spread
A = +/-0.25%
B = +/-0.5%
C = +/-1%
D = +/-2%

5 : Down spread
A = -0.5%
B = -1%
C = -2%
D = -4%

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