

Clock Oscillator (CMOS)

SCO-5032AU

AUTOMOTIVE, AEC-Q100



General Description

Ceramic packaged oscillator with enhanced mechanical reliability

Features

Wide supply options : 1.8V to 5.0V
High precision and accuracy
Low Jitter, low power consumption

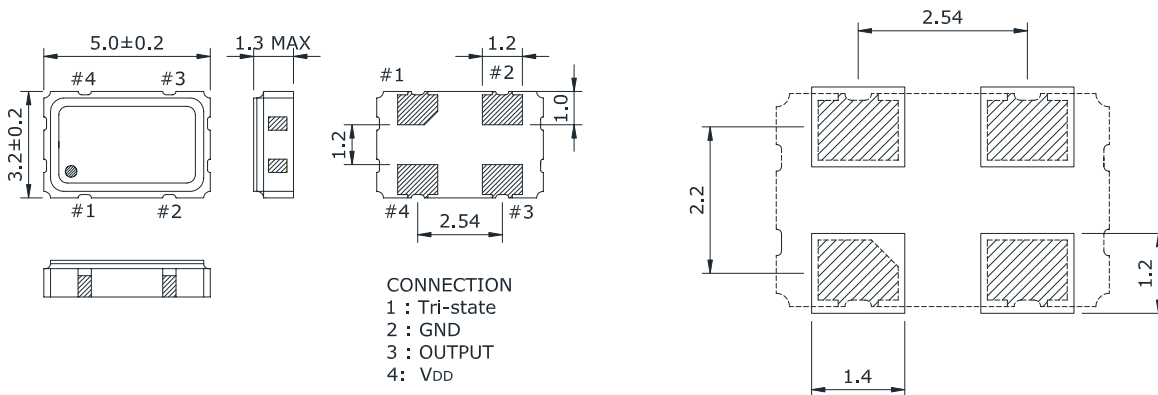
Main applications

AUTOMOTIVE dashboard

Electrical characteristics

Item	Values	
Part number	SCO-5032AU	
Output Waveform	SQUARED	
Supply voltage	+1.8V , +2.5V , +3.3V , +5.0V	+1.8V , +2.5V , +3.3V
Frequency range	1 - 150 MHz	32.768 KHz
Current consumption	20mA max <75MHz , 40mA max 75-150MHz	
Operating temperature range	-40 / +85°C or user spec	
Storage temperature range	-55°C / +125°C	
Frequency stability	<±100ppm overall or user spec	
Output load	15pF or 30pF	
Duty cycle	45%...55%	
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	10ms max	
Period jitter (pk-pk)	1ps max	
Aging	<±3ppm / year	
Reliability standard	AEC-Q100	

Dimensions



Clock Oscillator (CMOS)

SCO-5032AU

Part Number Generator

SCO-5032AU 0 D S A 50 - 010.000000

0 1 2 3 4 5 - 6

0 : Type
SCO-5032AU

1 : Vcc
1 = +1.8V
2 = +2.5V
3 = +3.3V
5 = +5.0V

2 : Duty cycle
D = 45% - 55%

3 : Pin #1 Option
S = En/Disable - TriState

4 : Op. temp. range
A = -40/+85

5 : Stability overall
blank < ±100ppm
50 < ±50ppm

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