

Clock Oscillator (CMOS)

SCO-2520AU

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

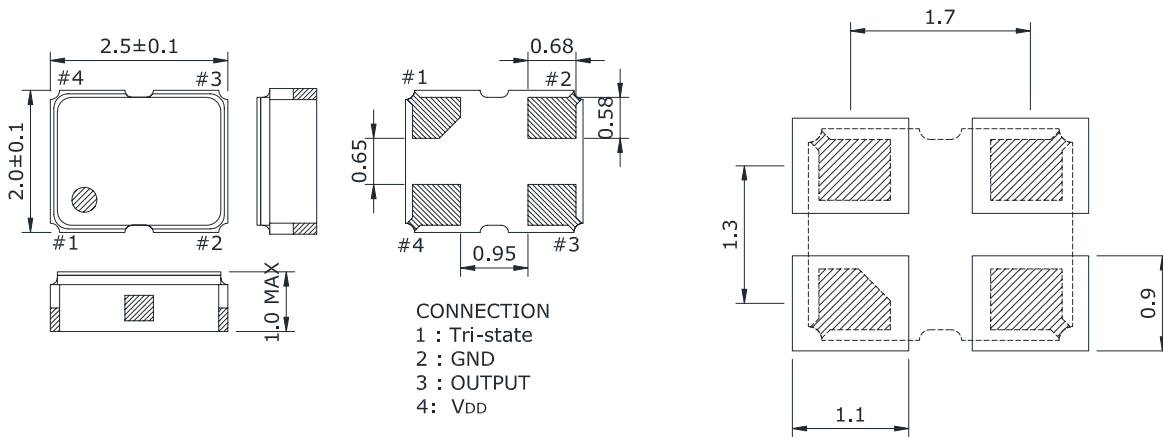
Main applications

AUTOMOTIVE dashboard

Electrical characteristics

Item	Values
Part number	SCO-2520AU
Output Waveform	SQUARED
Supply voltage	+1.8V , +2.5V , +3.3V
Frequency range	4 - 54 MHz
Current consumption	15mA max
Operating temperature range	-40 / +85°C or user spec
Storage temperature range	-55°C / +125°C
Frequency stability	$\pm 100\text{ppm}$ overall or user spec
Output load	15pF or 30pF
Duty cycle	45%...55%
V _{OH} / V _{OL}	90% V _{CC} / 10% V _{CC}
T _r / T _f	8ns max
Option Enable-Disable/Tri-state	available (Enable @ >70% V _{CC} , Disable at <30% V _{CC})
Start up time	5ms max
Period jitter (pk-pk)	2ps max
Aging	$\pm 3\text{ppm}$ / year
Reliability standard	AEC-Q100

Dimensions



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SCO-2520AU

Part Number Generator

SCO-2520AU 0 D S A 50 - 010.000000

0 1 2 3 4 5 6

0 : Type

SCO-2520AU

1 : Vcc

1 = +1.8V
2 = +2.5V
3 = +3.3V

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)

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max 10 digits including comma