



# UK SIMAKE COMMUNICATION GROUP LTD

Model:SMK5032VCAI

## Frequency Parameters

■ Frequency	61.44MHz-122.88MHz	
■ Standard Frequency	61.44MHz	
■ initial Frequency Tolerance @ 25° C	±15ppm	measurement referenced to frequency observed TA=25° C ,Vcc=3.3v,vc=1.65v, and after 15 minutes of operation, within 30 days after ex-works.
■ Frequency Tolerance vs Supply Voltage	±3ppm	measurement referenced to frequency observed TA=25° C ,Vcc varied from 3.13v to3.47v,vc=1.65v and 0load=15pf.
■ Frequency Tolerance vs Load	±1ppm	5% load change measurement referenced to frequency observed with TA=25° C ,Vcc=3.3v, Vc=1.65V.
■ aging tolerance 1 year	±3ppm	vcc vc,TA constant measurement referenced to frequency observed with TA=25° C ,Vcc=3.3V,Vc=1.65V, and after 30days of operation.

## Electrical Parameters

■ Supply Voltage	±3.3V
■ Supply Voltage Tolerance	±5%
■ Current Consumption	5mA @ 25° C

## Operating Temperature Ranges

■ Frequency tolerance vs operating temperature range	±30PPM	TA Varied From -40 to 85° C, measurement referenced to frequency observed with TA=25° C, Vcc=3.3V, Vc=1.65V, 0load=15pf, temperature rise speed less than 2° C Per minute
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## Output Details

■ Output Waveform	LVC MOS	
■ Output Load	15pF	
■ Rise and Fall time (10% - 90%)	5ns max	
■ Duty Cycle	min45%-55% max	
■ Output High Voltage	2.7V	Vcc=3.3v, 0lad=15pf
■ Output low Voltage	0.4V	Vcc=3.3v, 0lad=15pf
■ Operable temperature	-40° C +85° C	
■ storage temperature	-55° C +125° C	

## Noise Parameters

Phase Noise (typical):	-75dBc/Hz @ 10Hz
	-105dBc/Hz @ 100Hz
	-130dBc/Hz @ 1KHz
	-145dBc/Hz @ 10KHz
	-145dBc/Hz @ 100KHz
	-155dBc/Hz @ 1MHz

EMAIL: EVA@CIMAKE.COM.CN MARK@CIMAKE.CO.UK

TEL: +44 0208 492 6388 FAX: +44 0208 492 0196

Website:www.cimake.co.uk

COMPANY ADDRESS: 419, HARBOME ROAD , EDGBASTON, BIRMING.B15 3LB



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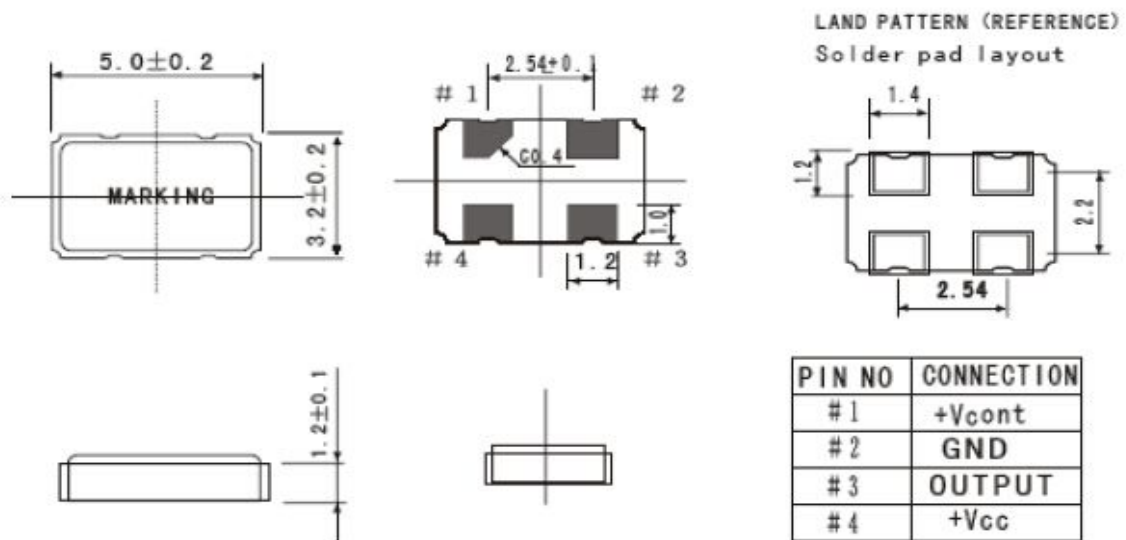
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## Voltage control characteristics

frequency tuning range

min-150ppm	max-60ppm	Vc=0v.measurement referenced to Vc=1.65V
min-15ppm	max+15ppm	Vc=1.65v.measurement referenced to exactly 61.44MHz
min+60ppm	max+150ppm	Vc=3.3v.measurement referenced to Vc=1.65V
Linearity slope	20% positive	
input impedance	100K $\Omega$	

## 2. Mechanical Structure (mm)



Note1: Referential Weight 0.1g

## 3. Test Circuit

