UK SIMAKE COMMUNICATION GROUP LTD

Model:SMK5032TC

Features

⊡ Best in class frequency versus temperature ⊡ RMS phase jitter down to 0.13ps

⊡ Phase noise < -160dBc/Hz noise floor ⊡ Voltage control and T-sense options available

Applications

⊡ Time and frequency reference o Positioning

o Test and Measurement o Telecommunications o Hi-Rel / Defense

5.0 x 3.2 x 2.0 mm

Specification for electrical appliances

Parameter	3.3V				Unit
	MIN		MAX		
Supply Voltage(VDD) 5%	3.135		4.465		V
Frequency Range	1.25		52		MHz
Frequency Stability	±0.05		±2.5		ppm
Standard Frequency	10.0, 12.8, 16.384, 19.2,19.44, 20 , 25, 26, 30.72, 38.88 , 40,				MHz
Control voltage, Vc	0.5		2.5		V
Frequency tuning ≤26MHz	±5				ppm
Frequency tuning >26MHz			±7		
Supply voltage stability	±0.025				
Supply voltage, VCC	2.5		5.7		V
Current (C/Sine)	2				mA
Current (Sine)	8				
Current (HCMOS)	4				
Current (ACMOS)	8				
Input level low (pin 6)			0.2VCC		V
Input level high (pin 6)	0.6VCC				
Start-up time	5		15		ms
Frequency stability over temperature	±0.05		±2.5		ppm
SSB Phase Noise (25° C)	19.2		51.84		MHz
10Hz	-98		-100		dBc/Hz
100Hz	-130		-128		
1KHz	-147		-145		
10KHz	-155		-155		
100KHz	-158		-158		
Operating temperature range	-55	105	-55	105	° C

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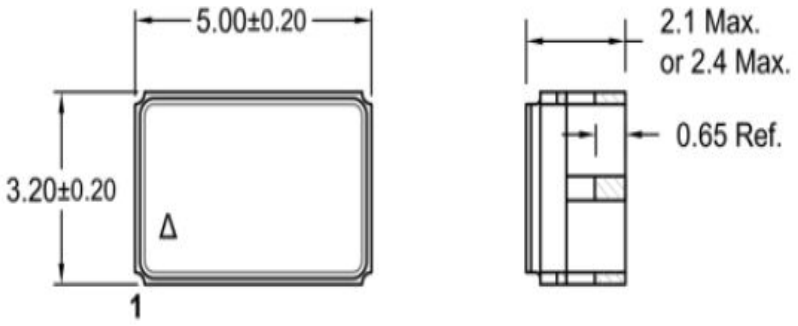
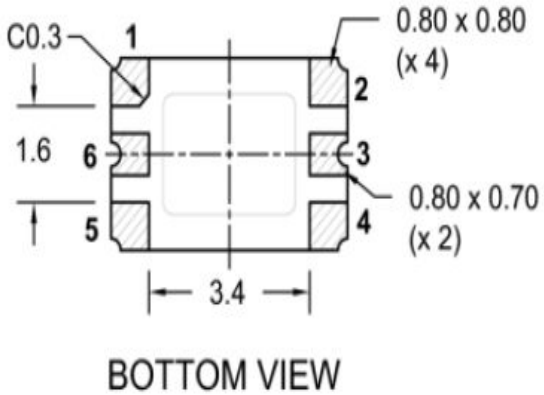
Model Outline and Recommended Pad Layout (6 pad)



PIN CONNECTIONS	
1*	Do Not Connect / Vc
2	GND
3*	Do Not Connect / Vref / Vtemp
4	RF Output
5	Vcc
6	Enable

* Depending on specification



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