



FEATURE

The SMK7050TC encompasses Rakon's new patented Pluto+ ASIC. Pluto+ advances on the world famous best -in -class'Pluto ASIC technology by delivering exceptional phase noise and jitter performance and enhanced frequency versus temperature stability.

Applications

- Time and frequency reference
- o Positioning
- o Test and Measurement
- o Telecommunications
- o Hi -Rel / Defense

7.0 x 5.0 x 2.2 mm

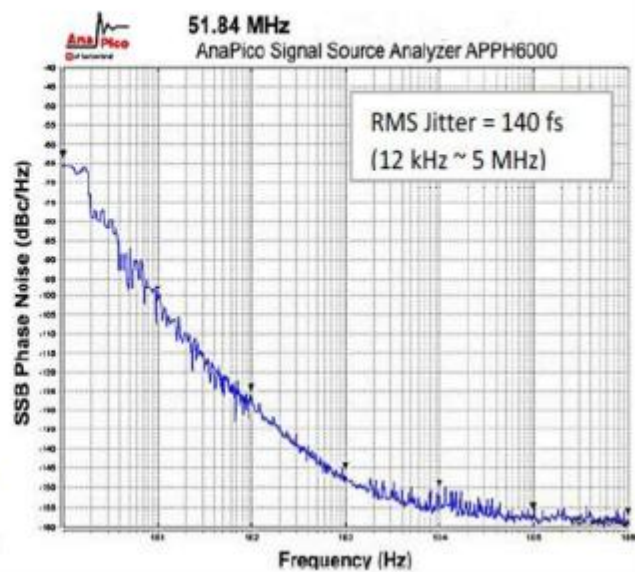
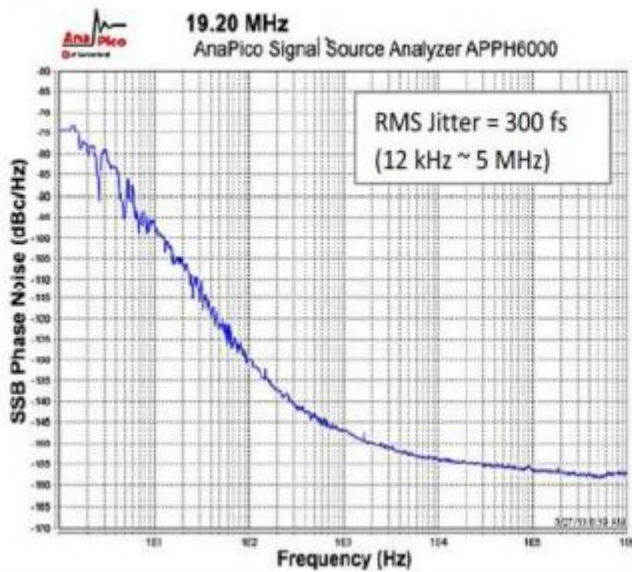


Specification for electrical appliances

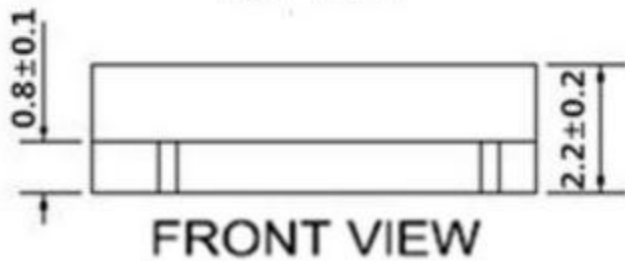
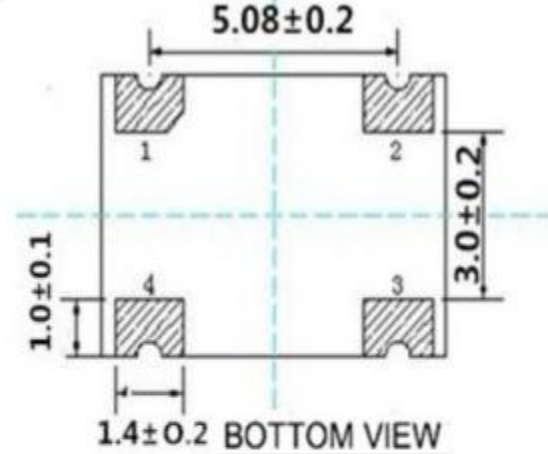
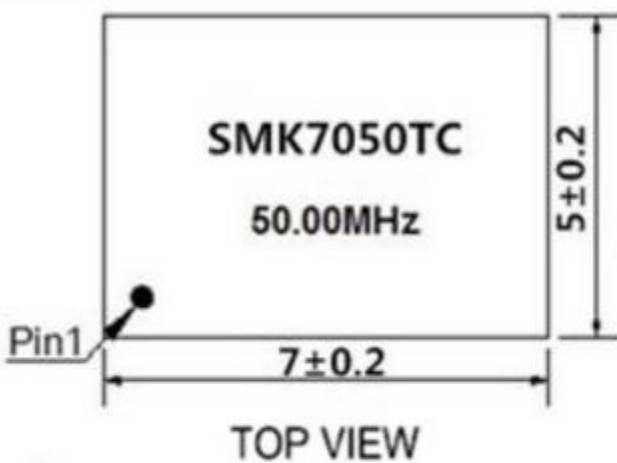
Parameter	3.3V		Unit		
	MIN	MAX			
Supply Voltage(VDD) 5%	3.135	3.465	V		
Frequency Range	1.25	52	MHz		
Frequency Stability	±0.05	±2.5	ppm		
Standard Frequency	10.12.8, 16.384,16.8, 19.2,19.44, 20 , 25, 26, 30.72, 38.88 , 40,		MHz		
Control voltage, Vc 1.5V	0.5	2.5	V		
Frequency tuning ≤26MHz	±5		ppm		
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		
			KΩ		
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	-40	85	-40	85	°C



SSB Phase Noise (Typical value at 25°C)



Outline(mm)



PIN	
1	GND/NC
2	GND
3	OUTPUT
4	Vcc