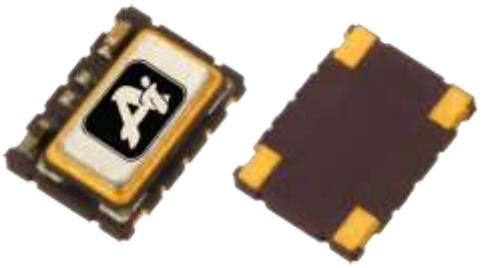
Features

- CMOS and clipped sine wave output optional.
- Supply voltage: 2.7V~5.5V
- High precision for -40~+85°C, ±0.2ppm.
- Voltage control function available.
- Automatic mounting and reflow soldering.
- Applications: Base station, Femtocell, Wireless communications, Telecommnunications, etc.
- High stability and high reliability.



Electrical Specifications

Type		SMD 7050 TCXO		
Output Type		Clipped Sinewave	CMOS	
Output Load		10kΩ // 10pF	15pF	
Output Voltage		0.8 Vp-p Min.	Output Low (VOL)	0.1 * Vcc Max.
			Output High (VOH)	0.9 * Vcc Min.
Supply Current		3.5mA Max.	6mA Max.	
Oscillation Mode		Fundamental		
Supply Voltage		2.7 ~ 5.5V		
Frequency Range		5MHz~52MHz		
Initial Frequency Tolerance at 25°C after 2 Reflows		±2.0ppm		
Frequency Stability	Vs. Temperature (- 40 ~ + 85°C)	±0.2ppm		
	Vs. Load (±5%)	±0.1ppm		
	Vs. Supply Voltage (±5%)	±0.1ppm		
Storage Temperature Range		-55 ~ +125°C		
Auto Frequency Control Range (Option)		±5 ~ ±10ppm (1.5 ±1 V)		
Start-up Time		2.0ms Max.		
Harmonics		-5dBc Max.		
Phase Noise at 1kHz Offset		-145dBc/Hz		
Aging		±1ppm/Year Max.		
24 hr Holdover Stability (Option) [#1]		±40ppb		
Free Run Stability for 20 Years (Option) [#2]		±4.6ppm		

[#1] 24 hours at constant temperature after 48 hours operation.

[#2] Inclusive of initial tolerance at 25ºC, temperature, supply voltage ± 5%, load ± 5%, reflow soldering and ageing 20 years.

Ordering Information

KTC7050	05000M	27	02	0	S
Product Code	Frequency Range 5.000MHz	Supply Voltage 27=2.7V 55=5.5V	Frequency Stability Vs. Temperature 02=±0.2ppm	Voltage Control 0=no VC 1=VC	Output Type C=CMOS S=Clipped Sine wave

Dimension

Units:mm