



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, Telecommunication, etc.
- High stability and high reliability.



Electrical Specifications

Type		SMD 5032 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.

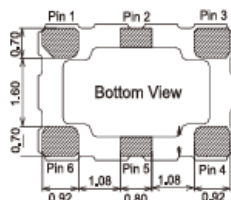
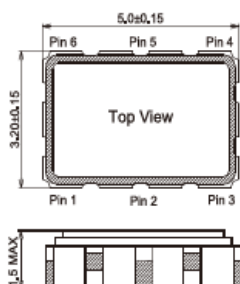
[#2] Inclusive of initial tolerance at 25°C, temperature, supply voltage ± 5%, load ± 5%, reflow soldering and ageing 20 years.

Ordering Information

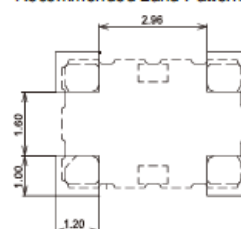
KTC5032	05000M	27	02	0	S
Product Code	Frequency Range 5.000MHz	Supply Voltage 27=2.7V 55=5.5V	Frequency Stability Vs. Temperature 02=±0.2ppm	Voltage Control 0=no VC 1=VC	Output Type C=CMOS S=Clipped Sine wave

Dimension

Units:mm



Recommended Land Pattern



Pin Connection

Name	Function
Pin 1	AFC or GND
Pin 2	NC
Pin 3	GND
Pin 4	OUTPUT
Pin 5	NC
Pin 6	VCC