TCXO 5034

Features

- Ultra Stable
- Wide Frequency Range
- Plastic Package
- RoHS compliant

Specifications			Option Codes
Frequency Range:		10 MHz ~ 52 MHz	
Clipped Sine Wave	**Output Level:**	0.8 Volts [Peak-to-Peak] (min.)	CS
	Load:	10 K Ohms // 10 pF ± 10%	
HCMOS	**V_{High}:**	2.4 V (min.)	H
	V_{Low}:	0.4 V (max.)	
	Duty Cycle:	45% to 55%	
	Rise/ Fall Time:	6 ns (max.)	
	Load:	15 pF ± 5%	
Supply Voltage, V_{dd}:		+3.3 V ± 5% +5 V ± 5%	3 5
Current Consumption:		10 mA (max.)	
Supply Voltage Stability:		± 0.1 ppm (max.)	
Load Stability:		± 0.2 ppm (max.)	
Frequency Tolerance @ 25°C:		± 1 ppm (max.)	
Operating Temperature Range and Temperature Stability:		Select from Table 1	
Frequency Adjustment Option:		External Control Voltage (1.5 V ± 1.0 V) None (Fixed Frequency)	V N
Control Voltage Range:		1.5 V ± 1.0 V	
Frequency Tuning Range:		± 5 ppm (min.)	
Frequency Tuning Slope:		Positive	
Linearity:		10% (max.)	
RMS Jitter:		1.3 ps (max.) [12 KHz ~ 5 MHz]	
Aging @ +25°C:		± 1 ppm (max.) per year	
Storage Temperature Range:		-55°C to +125°C	

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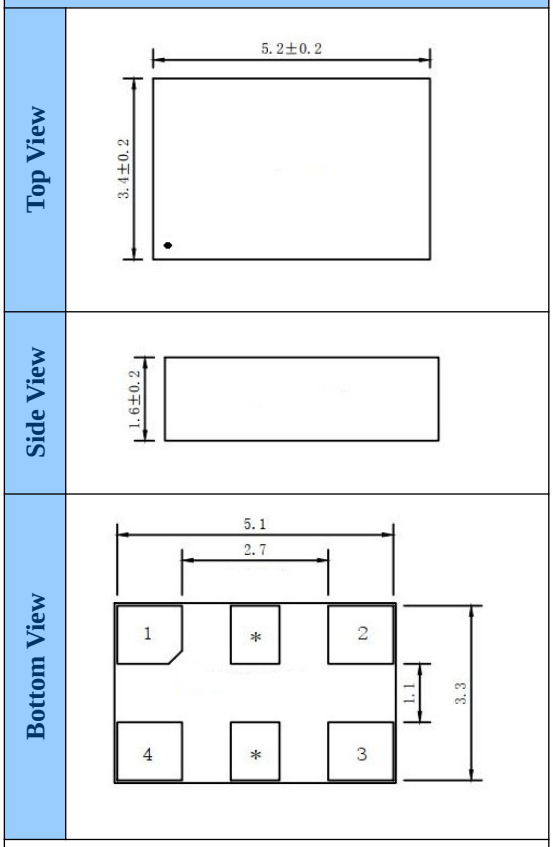
Mechanical Specifications

Outline



▲ All dimensions are in mm. Tolerance is ±0.1 mm, unless otherwise specified. The pins with '*' are for factory test. Dot in Top view indicates pad 1.

Table 1

OTR Code	Stability Codes		050	W	V1	X4	X	Y	P	Q
	Temperature Stability		± 0.05 ppm	± 0.1 ppm	± 0.2 ppm	± 0.28 ppm	± 0.5 ppm	± 1 ppm	± 2 ppm	± 2.5 ppm
C	Operating Temperature Range	-20°C to +70°C	■	■	■	■	■	■	■	■
H		-30°C to +85°C		■	■	■	■	■	■	■
I		-40°C to +85°C		■	■	■	■	■	■	■
L3		-50°C to +90°C			■	■	■	■	■	■

■ Denotes Available □ Denotes not Available

Table 2
Typical SSB Phase Noise @ 10 MHz

10 Hz offset	-92 dBc/Hz
100 Hz offset	-120 dBc/Hz
1 KHz offset	-140 dBc/Hz
10 KHz offset	-145 dBc/Hz
100 KHz offset	-150 dBc/Hz

Pad Configuration:

Pad	Option N	Option V
1	No Connection	Control Voltage
2	Ground	Ground
3	Output	Output
4	Supply Voltage	Supply Voltage

Ordering Information

Example

TCXO 5034	I	V1	H	3	N	025M000000

- TCXO 5034 → Series
- I → OTR: -40°C to +85°C
- V1 → Stability: ±0.2 ppm
- H → Output: HCMOS
- 3 → Supply Voltage: 3.3 V
- N → Freq. Adjustment: None
- 025M000000 → Freq. 25 MHz

Specifications subject to change without prior notice

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Note: Not all combination of options are available. Other specifications may be available upon request.

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