



SMD Temperature Compensated Crystal Oscillator

TCXO 7050

Features

- Ceramic Package
- RoHS compliant

Specifications		Option Codes
Clipped Sine Wave	Frequency Range:	10 MHz ~ 52 MHz
	Output Level:	0.8 Volts [Peak-to-Peak] (min.)
	Load:	10 K Ω // 10 pF \pm 10%
	Current Consumption:	1.5 mA (max.) for 10 MHz ~ 14.9 MHz 2.0 mA (max.) for 15 MHz ~ 25.9 MHz 2.5 mA (max.) for 26 MHz ~ 40 MHz
HCMOS	Frequency Range:	1 MHz ~ 40 MHz
	V _{High} :	0.9 V _{dd} (min.)
	V _{Low} :	0.1 V _{dd} (max.)
	Duty Cycle:	45% to 55%
	Rise/ Fall Time:	10 ns (max.) [20% to 80% of the waveform]
	Load:	15 pF \pm 10%
	Current Consumption:	10 mA (max.) for +2.5 V 15 mA (max.) for +3.3 V 27 mA (max.) for +5.0 V
Supply Voltage, V _{dd} :		+2.5 V \pm 5% +3.3 V \pm 5% +5 V \pm 5%
Supply Voltage Stability:		\pm 0.3 ppm (max.)
Load Stability:		\pm 0.3 ppm (max.)
Frequency Tolerance @ 25°C:		\pm 2 ppm (max.)
Start-up Time:		5 ms (max.)
Operating Temperature Range and Temperature Stability:		Select from Table 1
Frequency Adjustment Option:		External Control Voltage (1.5 V \pm 1 V) None (Fixed Frequency)
Control Voltage Range:		1.5 V \pm 1.0 V
Frequency Pulling Range:		\pm 5 ppm (min.)
Frequency Tuning Slope:		Positive
Aging @ +25°C:		\pm 1 ppm (max.) per year
Storage Temperature Range:		-55°C to +125°C



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Mechanical Specifications

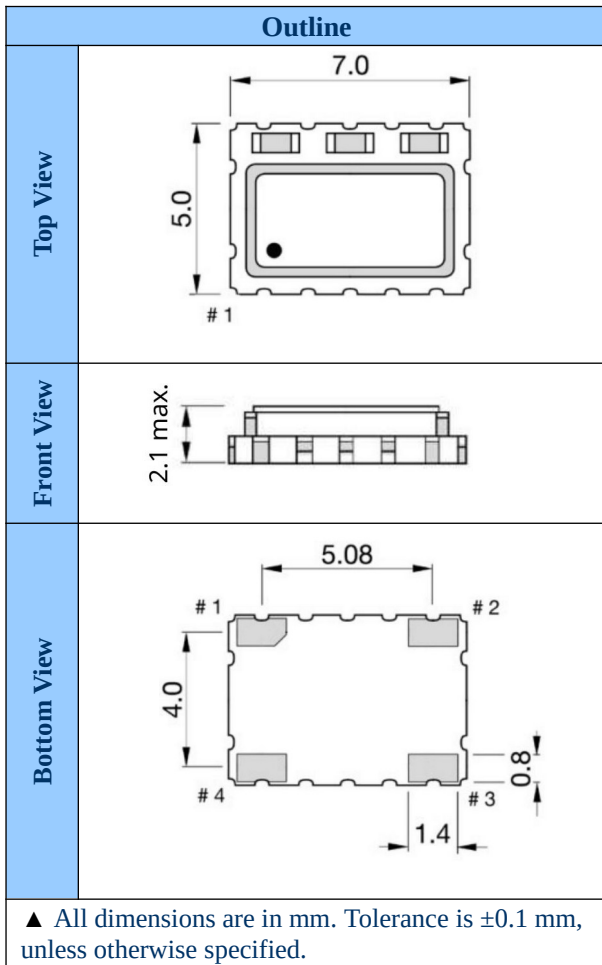


Table 1

OTR Codes	Stability Codes		X	Y	Z	P	Q
	Temperature Stability		± 0.5 ppm	± 1 ppm	± 1.5 ppm	± 2 ppm	± 2.5 ppm
B	Operating Temperature Range	0°C to +60°C					
C		-20°C to +70°C					
G		-30°C to +80°C					
H		-30°C to +85°C					
I		-40°C to +85°C					

Denotes Available Denotes not Available

Table 2
Typical SSB Phase Noise @ 10 MHz, +3.3 V

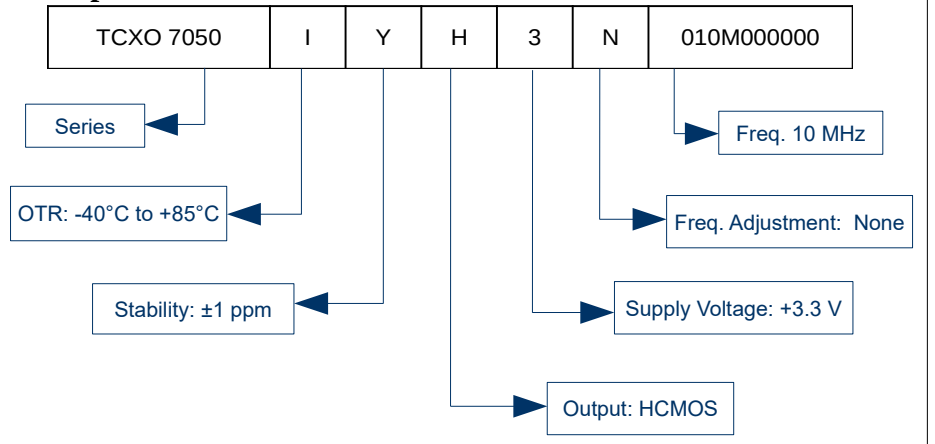
	Clipped Sine Wave	HCMOS
10 Hz offset	-80 dBc/ Hz	-95 dBc/ Hz
100 Hz offset	-115 dBc/ Hz	-120 dBc/ Hz
1 KHz offset	-135 dBc/ Hz	-138 dBc/ Hz
10 KHz offset	-145 dBc/ Hz	-145 dBc/ Hz
100 KHz offset	-148 dBc/ Hz	-150 dBc/ Hz

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



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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Page 2 of 2

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