



SMD Temperature Compensated Crystal Oscillator

TCXO 5038

Features

- High Precision
- MSL 1
- Hermetically Sealed

Specifications		Option Codes
Frequency Range:		10 MHz ~ 60 MHz
Clipped Sine Wave	Output Level:	0.8 Volts [Peak-to-Peak] (min.)
	Load:	10 K Ω // 10 pF \pm 5%
HCMOS	V _{High} :	0.9 V _{dd} (min.)
	V _{Low} :	0.1 V _{dd} (max.)
	Duty Cycle:	45% to 55%
	Rise/ Fall Time:	6 ns (max.)
	Load:	15 pF \pm 5%
Start-up Time:		2 ms (max.)
Frequency Tolerance @ 25°C:		\pm 1 ppm (max.)
Temperature Stability:		As per Table 1
Operating Temperature Range:		As per Table 1
Supply Voltage, V _{dd} :		+3.3 V \pm 5%
Current Consumption:		7 mA (max.)
Supply Voltage Stability:		\pm 0.1 ppm (max.)
Load Stability:		\pm 0.1 ppm (max.)
Frequency Adjustment Option:		None (Fixed Frequency)
G-Sensitivity:		2 ppb/g (max.) per axis
Aging @ 25°C:		\pm 1 ppm (max.) for first year
Storage Temperature Range:		-55°C to +105°C
Moisture Sensitivity:		Level 1



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Mechanical Specifications

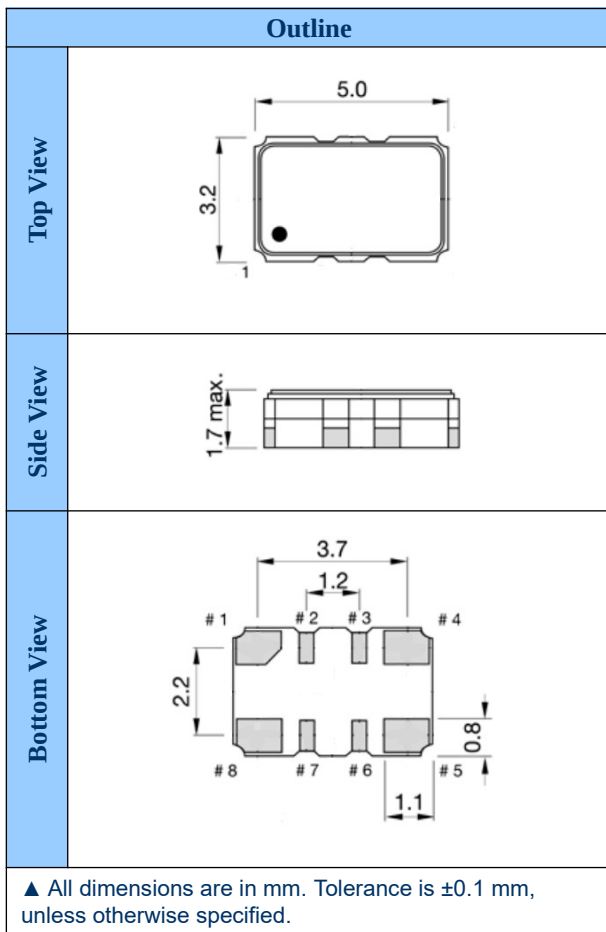


Table 1

OTR Code s	Stability Codes		X4	X	Y	P
	Temperature Stability		± 0.28 ppm	± 0.5 ppm	± 1 ppm	± 2 ppm
C	Operating Temperature Range	-20°C to +70°C				
I		-40°C to +85°C				

Denotes Available Denotes not Available

Table 2
Typical SSB Phase Noise @ 27 MHz

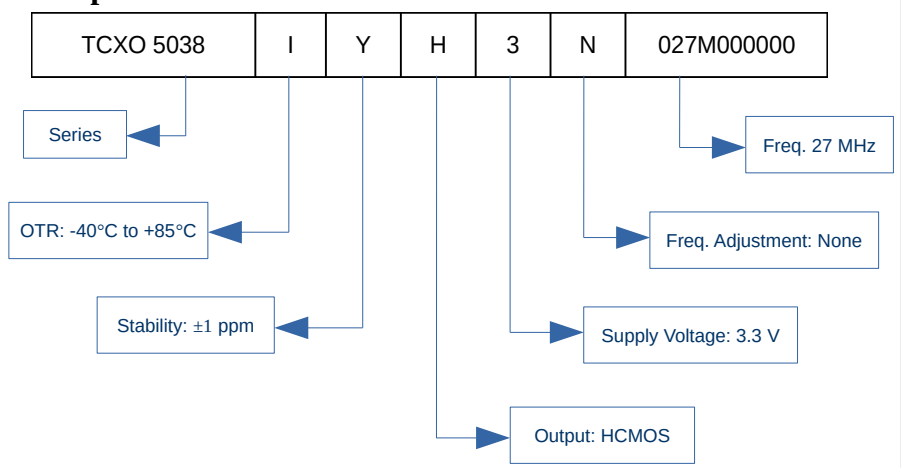
10 Hz offset	-85 dBc/Hz
100 Hz offset	-105 dBc/Hz
1 KHz offset	-130 dBc/Hz
10 KHz offset	-150 dBc/Hz
100 KHz offset	-155 dBc/Hz

Pad Configuration:

Pad	Description
1	No Connection or Ground
2, 3	No Connection
4	Ground
5	Output
6, 7	No Connection
8	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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