



Temperature Compensated Crystal Oscillator

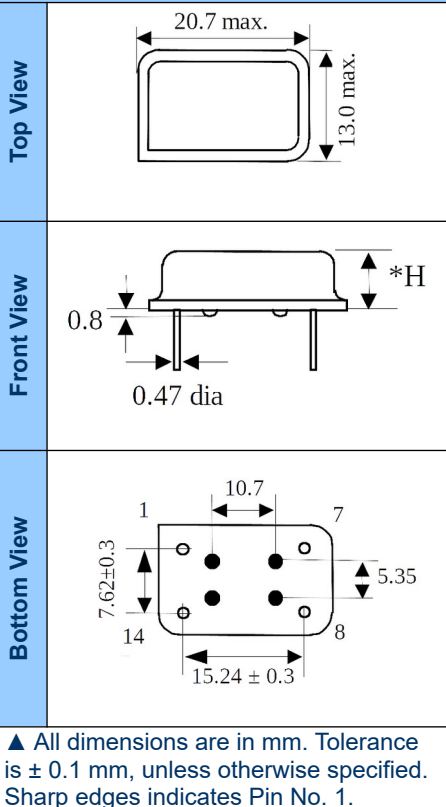
TCXO 1015

Features

- Standard DIL-14 Package
- Wide Frequency Range
- Custom Options available
- RoHS Compliant

Mechanical Specifications

Outline



*Height

7.1 mm (max.) → Upto 40 MHz
8.5 mm (max.) → >40 MHz

Pin Configuration:

Pin	Option N & I	Option V
1	No Connection	Control Voltage
7	Ground	Ground
8	Output	Output
14	Supply Voltage	Supply Voltage

Specifications	Variant			Option Codes
	H	T	CS	
Frequency Range: 8 MHz ~ 40 MHz 1 MHz ~ 160 MHz (+5 V) 1 MHz ~ 220 MHz (+3.3 V)	■	□	■	
Output Drive: 15 pF, HCMOS/ TTL 10 KΩ 10 pF, Clipped Sine Wave Others	■	■	■	H/T CS Specify
Output Levels: Logic '0' = +0.5 V (max.), '1' = +4.0 V (min.) Logic '0' = +0.4 V (max.), '1' = +2.4 V (min.) 0.8 V (peak to peak) [min.] Others	■	■	■	Specify
Rise/ Fall time: 10 ns (max.)	■	■		
Waveform Symmetry: 40:60 (max.) @ 2.5 V 40:60 (max.) @ 1.4 V	■	■		
Frequency Accuracy: ±1 ppm (max.) at 25°C ± 2°C	■	■	■	
Temperature Stability: Select from Table 1	□	□	□	Specify
Operating Temperature Range (OTR): Select from Table 1	□	□	□	Specify
Supply Voltage, V_{dd}: +3.3 V (± 5%) +5.0 V (± 5%)	■	■	■	3 5
Supply Current: 20 mA (max.) (<20 MHz) 40 mA (max.) (20 ~ 50 MHz) 50 mA (max.) (>50 MHz)	■	■	■	
Frequency Adjustment Option: ±5 ppm (min.) by External Control Voltage (0.5V _{dd} ± 0.5V _{dd}) ±3 ppm (min.) by Internal Trimmer None	■	■	■	V I N
Aging: ± 2 ppm (max.) per year	■	■	■	
Storage Temperature Range: -55°C to +125°C	■	■	■	

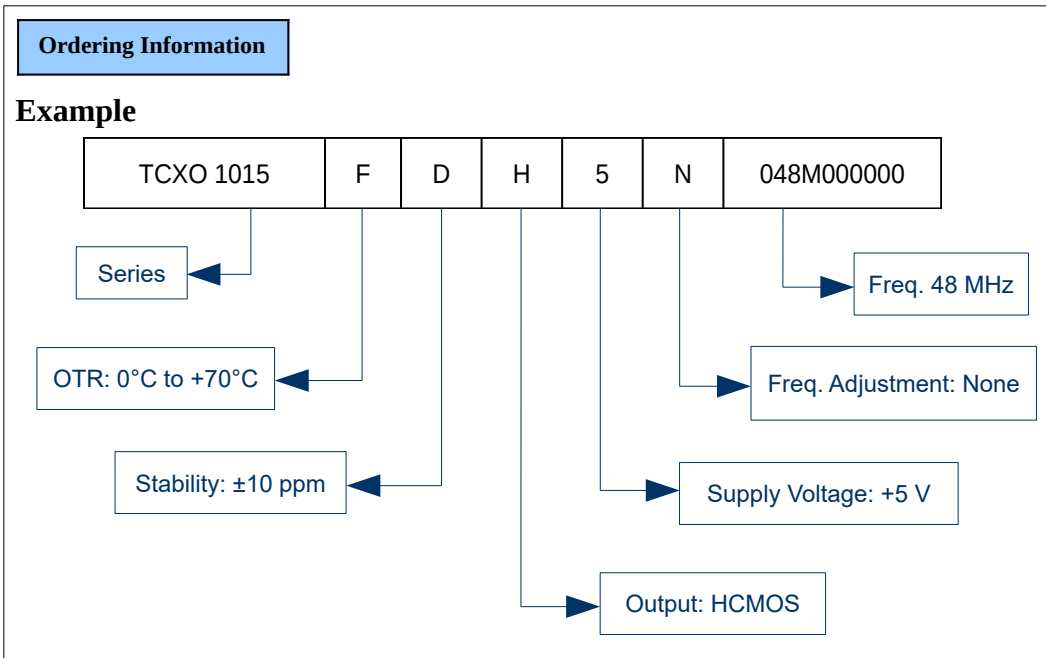
■ Standard, □ Optional – please specify required code(s) when ordering.

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Table 1

OTR Codes	Stability Codes		Z	P	Q	R	B	D
	Temperature Stability		± 1.5 ppm	± 2 ppm	± 2.5 ppm	± 3 ppm	± 5 ppm	± 10 ppm
A	Operating Temperature Range	0°C to +50°C	■	■	■	■	■	■
B		0°C to +60°C	■	■	■	■	■	■
F		0°C to +70°C	■	■	■	■	■	■
D		-10°C to +60°C	■	■	■	■	■	■
E		-10°C to +70°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



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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