



# Temperature Compensated Crystal Oscillator

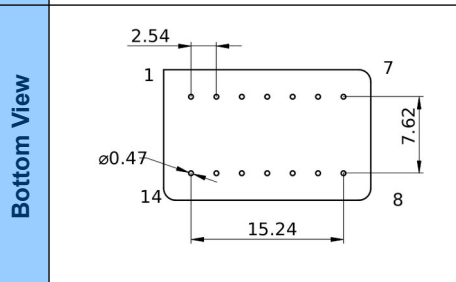
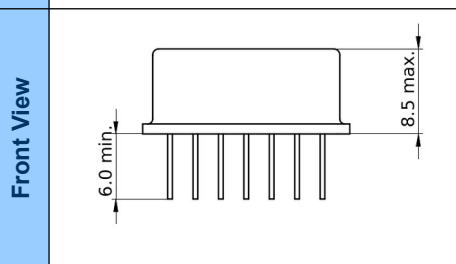
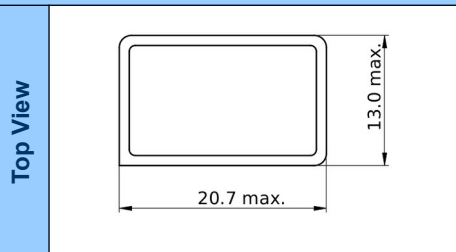
## TCXO 1026

### Features

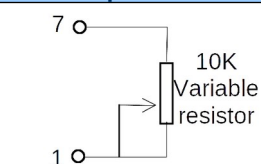
- All 14-Pin DIL-14 Package
- Wide Frequency Range
- Custom Options available
- RoHS Compliant

### Mechanical Specifications

#### Outline



#### Option R



External 2 pin variable resistor

▲ All dimensions are in mm. Tolerance is  $\pm 0.1$  mm, unless otherwise specified. Sharp edges indicates Pin No. 1.

Specifications	Variant			Option Codes
	H	T	S	
<b>Frequency Range:</b> 8 MHz ~ 100 MHz 10 MHz ~ 100 MHz	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Output Drive:</b> 15 pF, HCMOS/ TTL Sine Wave	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Specify
<b>Output Levels:</b> Logic '0' = +0.5 V (max.), '1' = +4.0 V (min.) Logic '0' = +0.4 V (max.), '1' = +2.4 V (min.) + 0 dBm (min.) into 50 $\Omega$	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Rise/ Fall Time:</b> 10 ns (max.)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Waveform Symmetry:</b> 40:60 (max.) @ 2.5 V 40:60 (max.) @ 1.4 V	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Frequency Accuracy:</b> $\pm 1$ ppm (max.) at 25°C $\pm 2$ °C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Temperature Stability:</b> Select from Table 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Specify
<b>Operating Temperature Range (OTR):</b> Select from Table 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Specify
<b>Supply Voltage, V<sub>dd</sub>:</b> +3.3 V ( $\pm 5\%$ ) +5.0 V ( $\pm 5\%$ ) Others	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3 5 Specify
<b>Supply Current:</b> 20 mA (max.) (<20 MHz) 30 mA (max.) (20 ~ 50 MHz) 50 mA (max.) (>50 MHz)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Supply Voltage Stability:</b> $\pm 0.1$ ppm (max.)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Frequency Adjustment Option:</b> External Control Voltage (0.5 V <sub>dd</sub> $\pm$ 0.5 V <sub>dd</sub> ) $\pm 3$ ppm (min.) by Internal Trimmer $\pm 5$ ppm (min.) by external 2 pin Variable Resistor None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	V I R N
<b>Aging:</b> $\pm 1$ ppm (max.) for First Year	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Storage Temperature Range:</b> -55°C to +125°C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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

### Pin Configuration:

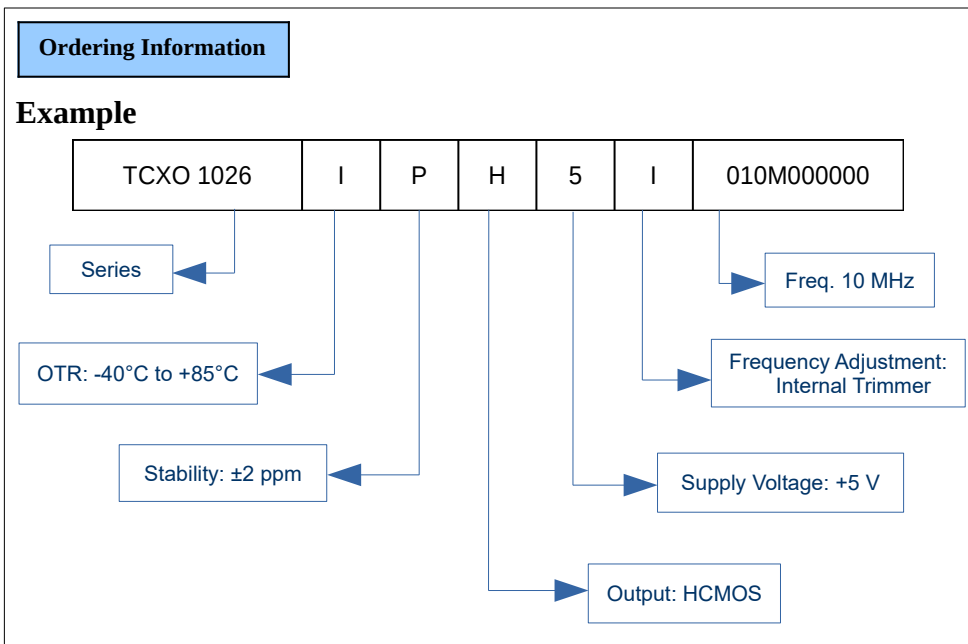
Pin	Option N & I	Option V	Option R
1	No Connection	Control Voltage	2 Pin Variable Resistor one end
7	Ground	Ground	Ground (Variable Resistor other end)
8	Output	Output	Output
14	Supply Voltage	Supply Voltage	Supply Voltage

# Temperature Compensated Crystal Oscillator

**Table 1**

OTR Codes	Stability Codes		X	Y	Z	P
	Temperature Stability		± 0.5 ppm	± 1 ppm	± 1.5 ppm	± 2 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



Specifications subject to change without notice

Rev. Date: 28<sup>th</sup> July 2021

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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