

# Temperature Compensated Crystal Oscillators

## TC100



### FEATURES

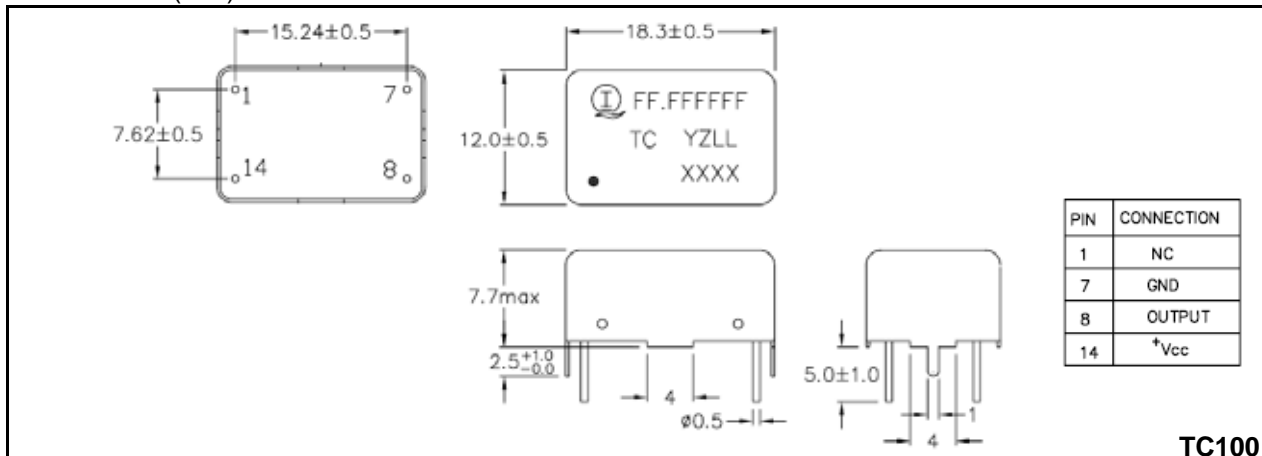
- Surface mount package
- Pick and place assembly
- Optional voltage control function



Item	Specifications		
Nominal Frequency Range	8.0MHz ~ 40.0MHz		
Frequency Stability Over Operating Temperature	0°C to 50°C	±1.0ppm	
	-10°C to 60°C	±1.5ppm	
	-20°C to 70°C	±2.0ppm	
	-30°C to 75°C	±2.5ppm	
	-40°C to 85°C	±5.0ppm	
Frequency Stability Over Operating Temperature	vs. Aging	±1.0ppm / year	
	vs. Supply Voltage	±0.3ppm ( $V_{CC} \pm 5\%$ )	
	vs. Output Load	±0.2ppm (Standard Load $\pm 10\%$ )	
Storage Temperature Range	-55°C to 125°C		
Supply Voltage ( $V_{DD}$ )	3.3V $\pm 5\%$ , 5.0V $\pm 5\%$		
Supply Current	3mA Max. (Clipped Sine) / 20mA Max. (CMOS)		
Jitter	3pS RMS		
Phase Noise	100Hz	-100dBc/Hz	
	1KHz	-130dBc/Hz	
	10KHz	-140dBc/Hz	
	100KHz	-145dBc/Hz	
Output and Load Characteristics	Output Waveform	CMOS	Clipped Sine
	Output Levels	CMOS	1V pk to pk
	Duty Cycle	50% $\pm 10\%$	-
	Rise / Fall Time	5ns Max.	-
	Load	15pF	10K $\Omega$ // 10pF
Frequency Control Range (For VCTCXO)	±3ppm to ±8ppm		
Control Voltage Range (For VCTCXO)	+1.65V $\pm 1.5V$ or +2.5V $\pm 2.0V$		

Please consult our sales representatives for other specifications.

### DIMENSION (mm)



TC100

All specifications are subject to change without notice.



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