

TM PRODUCT FAMILY Surface Mount TCXO 2.5 x 2.0mm

Features

- Ultra-Small Package
- Temperature Stability ±0.5 ~ ±2.5ppm
- Operating Temperature Range -40°C ~ +85°C



Specifications

Param	Value			
FREQUENCY RANGE	13 ~ 52 MHz			
SUPPLY VOLTAGE	1.8 ~ 3.3 V			
INPUT CURRENT	2.5 mA max			
	vs. TEMPERATURE	±0.5 ~ ±2.5 ppm		
EDECLIENCY STADILITY	vs. LOAD (±10%)	±0.2 ppm max		
FREQUENCY STABILITY	vs. SUPPLY VOLTAGE	±0.2 ppm max		
	AGING 1st YEAR	±1.0 ppm max		
FREQUENCY TOLERANCE a	±2.0 ppm max			
OPERATING TEMPERATUR	-40 ~ +85°C			
STORAGE TEMPERATURE F	-40 ~ +85°C			
CLIPPED SINEWAVE OUTPU	0.8 V _{P-P} typ			
OUTPUT LOAD	10 kΩ // 10 pF			
START-UP TIME	5 ms max			
PHASE NOISE at 1 kHz OFF	-130 dBc/Hz max			

NOTE: 1. NOT ALL STABILITIES ARE AVAILABLE FOR ALL OPERATING TEMPERATURE RANGES. CONTACT FACTORY FOR AVAILABILITY.

Environmental

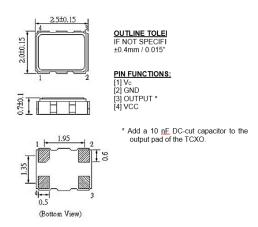
Parameter	Value			
Moisture Sensitivity Level	1			
RoHS	Complaint			
REACH SVHC	Compliant			
Halogen Free	Compliant			
Termination Finish	Au			
Unit Weight (grams)	0.051			

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



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Mechanical Specification



Part Numbering

Product Family	-	Frequency	-	Stability	Temperature Range	ı	Voltage	-	Output
ТМ		Frequency (kHz)		Stability (ppm) A = ±0.5 C = ±1.5	Temp Range (°C) D3 = -40 ~ +85 F3 = -30 ~ +85		Supply Voltage (V) 18 = 1.8V 33 = 3.3V		S = Clipped Sinewave

EXAMPLE: TM-32.000-AF3-33-S

Surface Mount TCXO 2.5 x 2.0mm, 32.000MHz, Stability ±0.5ppm over 30°C ~ +85°C, Supply Voltage 3.3V, Clipped Sinewave Output

EXAMPLE: TM-10.000-CD3-18-S

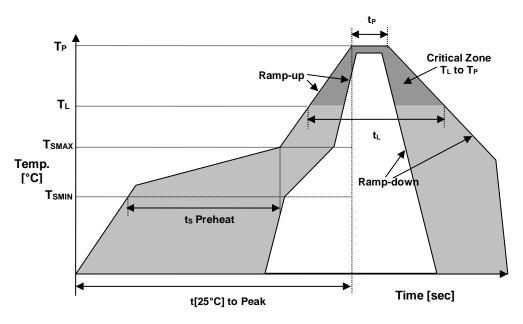
Surface Mount TCXO 2.5 x 2.0mm, 10.000MHz, Stability ±1.5ppm over 40°C ~ +85°C, Supply Voltage 1.8V, Clipped Sinewave Output

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Reflow Profile



Reflow Profile (Reference IPC/JEDEC J-STD-020)							
Temperature Min Preheat	T _{SMIN}	150°C					
Temperature Max Preheat	T _{SMAX}	200°C					
Time (T _{SMIN} to T _{SMAX})	t _S	60 – 180 sec.					
Temperature	T∟	217°C					
Peak Temperature	T_P	260°C					
Ramp-Up Rate	R_{UP}	3°C / sec. max					
Ramp-Down Rate	R _{DOWN}	6°C / sec. max					
Time within 5°C of Peak	T_P	10 sec.					
Temperature							
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.					
Time	TL	60 – 150 sec.					

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