

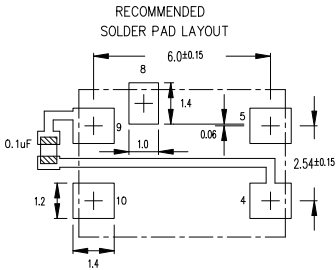
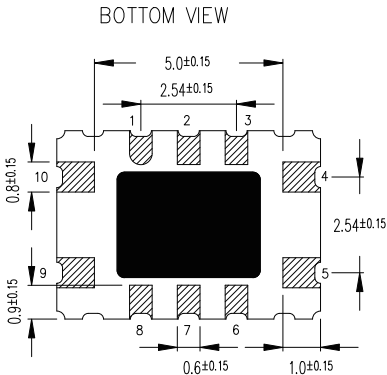
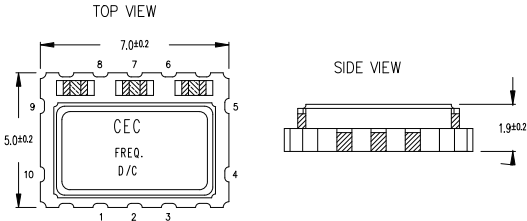
5×7 SMD VCTCXO

Part Number Guide				
TXS20-XXXX-FREQ.				
TXS20: Package-5x7 SMD VCTCXO				
XXXX: Input Voltage/Temp. Range/Temp. Stability/Output/Adjustment Range				
FREQ.: Frequency in MHz				
Example: TXS20-AASCN-10MHz (3.3V, ±0.3ppm@ -40°C~85°C, CMOS, no adjustment)				
Parameters参数		Coding Table代码表		
11	Frequency Range 频率范围	5MHz~52MHz		
~		10, 12, 8, 16, 16, 384, 19, 2, 19, 44, 20, 25, 38, 88, 40, 50MHz		
6	Input Voltage 输入电压	F:3.0V, A:3.3V, B:5V		
7	Temp. Range 温度范围	A: -40°Cto85°C, B: -30°Cto75°C, C: -20°Cto70°C D: 0°Cto70°C, L: -40°Cto105°C		
8	Temp Stability 温度稳定性	Q: ±0.1ppm, R: ±0.2ppm, S: ±0.3ppm, T: ±0.5ppm, U: ±1.0ppm		
9	Output Waveform 输出波形	C:CMOS, S:Clipped Sine Wave		
10	Adjustment Range 调频范围	H: ±5ppm~±10ppm N: No Adjustment		
Voltage电压				
Input Voltage 输入电压		3.0V±5%	3.3V±5%	5V±5%
VCO Center Voltage 压控端中心电压		1.5V	1.65V	2.5V
VCO Input Range 压控端电压范围		0~3V	0~3.3V	0~5V
Typical Specification of 10MHz TCXO 典型规格				
Frequency tolerance 频率精度		<±1ppm, after 1R reflow		
Aging 老化率		< ±0.3ppm/year		
Voltage Stability 电压稳定性		< ±0.1ppm@VDC±5%		
Load Stability 负载稳定性		< ±0.1ppm@CLoad±5%		
Start Time 开机时间		<2 ms		
Supply Current 消耗电流		CMOS Output	<4mA	
		Clipped Sine Wave Output	<2mA	
Output Level (CMOS) 输出电平		Output High Level	>90%Vcc	
		Output Low Level	<10%Vcc	
		Duty Cycle	45%~55%	
Output Level (C_Sine) 输出幅度		>0.8V Vp-p		
Load 负载		CMOS Output	15pF	
		Clipped Sine Wave Output	10KΩ//10pF	
Phase Noise 相位噪声		@100Hz	-130 dBc/Hz TYP.	
		@1k Hz	-148 dBc/Hz TYP.	
		@10k Hz	-154 dBc/Hz TYP.	
Storage Temp. Range 存储温度范围		-55~125°C		



Pb Free
RoHS Compliant

Mechanical Dimensions 外形尺寸



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1μF as close to the part as possible between +VDC and GND pads.

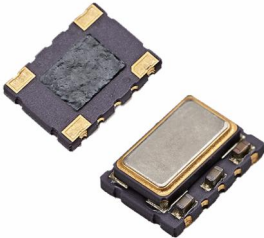
Unit: mm

PAD CONNECTIONS

PAD	FUNCTION
1	NC
2	NC
3	NC
4	GND
5	R.F.Output
6	NC
7	NC
8	Tri-State/NC
9	+VDC
10	VCO Input or N/C

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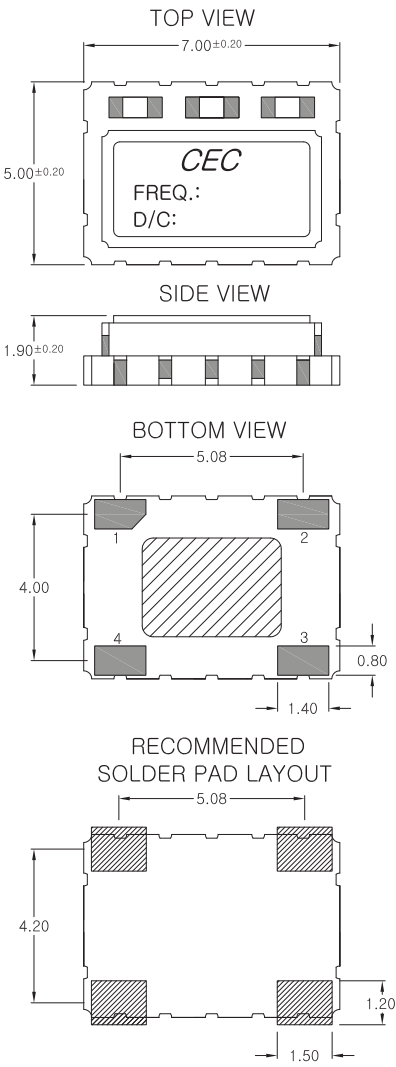
Part Number Guide			
TXT10-XXXX-FREQ.			
TXT10: Package-5x7 SMD VCTCXO			
XXXX: Input Voltage/Temp. Range/Temp. Stability/Output/Adjustment Range			
FREQ.: Frequency in MHz			
Example: TXT10-AASCN-10MHz (3.3V, ±0.3ppm@ -40°C~85°C, CMOS, no adjustment)			
Parameters参数		CodingTable代码表	
11 ~	Frequency Range 频率范围	5MHz~52MHz	
		10, 12, 8, 16, 16, 384, 19, 2, 19, 44, 20, 25, 38, 88, 40, 50MHz	
6	Input Voltage 输入电压	F:3.0V, A:3.3V, B:5V	
7	Temp. Range 温度范围	A: -40°Cto85°C, B: -30°Cto75°C, C: -20°Cto70°C D: 0°Cto70°C, L: -40°Cto105°C	
8	Temp Stability 温度稳定性	Q: ±0.1ppm, R: ±0.2ppm, S: ±0.3ppm, T: ±0.5ppm, U: ±1.0ppm	
9	Output Waveform 输出波形	C:CMOS, S:Clipped Sine Wave	
10	Adjustment Range 调频范围	H: ±5ppm~±10ppm N: No Adjustment	
Voltage电压			
Input Voltage 输入电压		3.0V±5%	3.3V±5% 5V±5%
VCO Center Voltage 压控端中心电压		1.5V	1.65V 2.5V
VCO Input Range 压控端电压范围		0~3V	0~3.3V 0~5V
Typical Specification of 10MHz TCXO 典型规格			
Frequency tolerance 频率精度		<±1ppm, after IR reflow	
Aging 老化率		<±0.3ppm/year	
Voltage Stability 电压稳定性		<±0.1ppm@VDC±5%	
Load Stability 负载稳定性		<±0.1ppm@CLoad±5%	
Start Time 开机时间		<2 ms	
Supply Current 消耗电流	CMOS Output	<4mA	
	Clipped Sine Wave Output	<2mA	
Output Level (CMOS) 输出电平	Output High Level	>90%Vcc	
	Output Low Level	<10%Vcc	
	Duty Cycle	45%~55%	
Output Level (C_Sine) 输出幅度		>0.8V Vp-p	
Load 负载	CMOS Output	15pF	
	Clipped Sine Wave Output	10KΩ//10pF	
Phase Noise 相位噪声	@100Hz	-130 dBc/Hz TYP.	
	@1k Hz	-148 dBc/Hz TYP.	
	@10k Hz	-154 dBc/Hz TYP.	
Storage Temp. Range 存储温度范围		-55~125°C	



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Mechanical Dimensions 外形尺寸



PIN CONNECTIONS

PIN No.	FUNCTION
1	Vcon:VCTCXO/ GND:TCXO
2	GND
3	R.F. Output
4	+VDC