

LVPECL SURFACE MOUNT CLOCK OSCILLATOR

SERIES CP2520





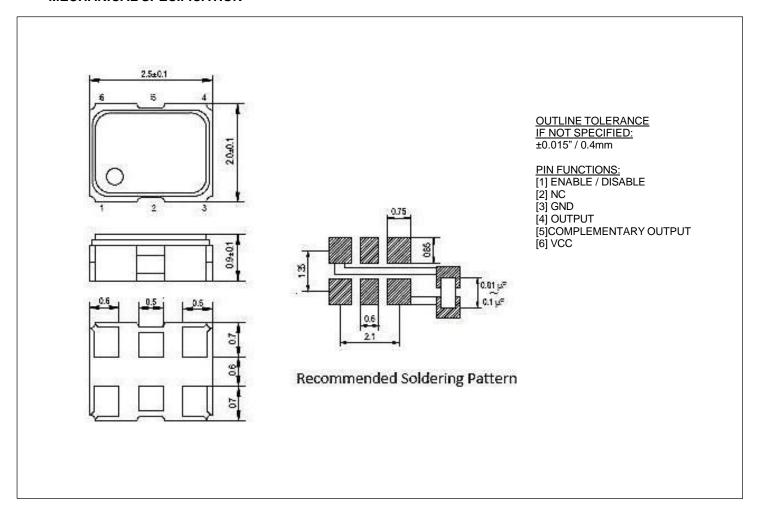
ELECTRICAL SPECIFICATION

Р	ARAMETER	VALUE			
Frequency Range		6.000 ~ 175.000 MHz			
Operating Temperature Range		-20°C ~ +70°C Standard -40°C ~ +85°C Extended			
Frequency Stability		±20 ppm, ±25 ppm, ±50 ppm, ±100ppm			
Aging, 1 st Year		±5 ppm max			
Storage Temperature Range		-55°C to +125°C			
Supply Voltage (Vcc)		1.8 V, 2.5 V, 3.3 V			
Supply Current		40 mA max			
	Symmetry	40% to 60% at 50% Wave form (45% to 55% Available)			
Output	Rise / Fall Time	0.4 ns max at 10% to 90% Vdd			
Output LVPECL	Logic "0" Level	V _{OL} =0.9V min			
LVPECL	Logic "1" Level	V _{OH} =1.6 max			
	Load	50 Ω (to V _{CC} -2 V)			
Enable / Disable Function		Pin 1: High or Open / Output enabled (Pins 4 & 5)			
		Pin 1: Low / Output disabled (High impedance)			
Phase Noise		-153dBc/Hz, Typical @ 100kHz offset			
RMS Phase Jitter (12kHz ~ 20 MHz)		0.5 ps max			

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MECHANICAL SPECIFICATION



PART NUMBERING SYSTEM

TYPE	SERIES	-	FREQUENCY (MHz)	1	SUPPLY VOLTAGE (Vcc)	-	STABILITY (ppm)	•	TEMPERATURE RANGE (°C)	•	SYMMETRY (Duty Cycle)	•	TAPE & REEL
Clock Oscillator CP	2520	-	6.000 ~ 175.000 MHz		* 1.8: Vcc=1.8 2.5: Vcc=2.5 3.3: Vcc=3.3	-	20: ±20 ppm 25: ±25 ppm 30: ±30 ppm 50: ±50 ppm		blank: -20°C to +70°C X: -40°C to +85°C	-	blank: 40 to 60% T: 45 to 55%	-	TR

^{*}Other ranges available. Please contact factory.

EXAMPLE: CP2520-40.000-3.3-25-X-T-TR

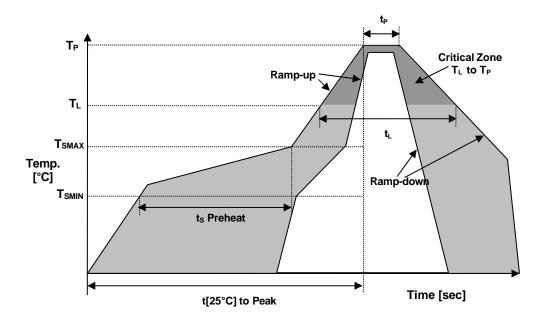
Surface Mount CP2520 LVPECL Oscillator, 2.5 x 2.0 mm, 40.000 MHz, 3.3 VDC Supply Voltage, ±25 ppm Stability from -40°C to +85°C, Symmetry 45% to 55%, Tape and Reel Packaging.



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REFLOW PROFILE



Reflow profile						
Temperature Min Preheat	T _{SMIN}	150°C				
Temperature Max Preheat	T _{SMAX}	200°C				
Time (T _{SMIN} to T _{SMAX})	ts	60-180 sec.				
Temperature	TL	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 Temperature	t _P	10 sec.				
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.				
Time	t _L	60-150 sec.				

ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
REACH SVHC	COMPLIANT
RoHS	COMPLIANT
TERMINATION FINISH	Au



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August 2020