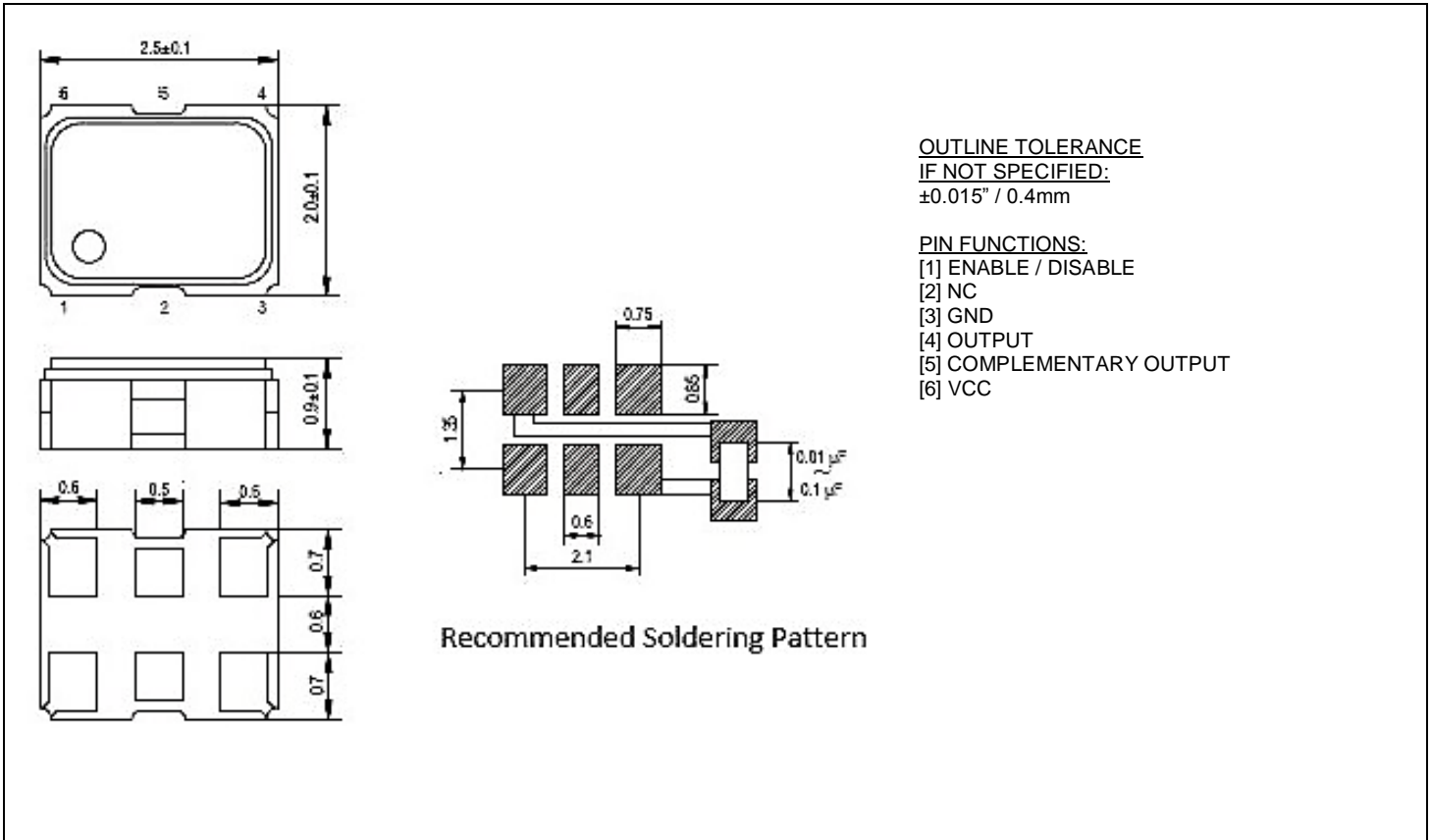




❖ **ELECTRICAL SPECIFICATION**

PARAMETER		VALUE
Frequency Range		6.000 ~ 175.000 MHz
Operating Temperature Range		-20°C ~ +70°C Standard -40°C ~ +85°C Extended
Frequency Stability		±25 ppm, ±50 ppm, ±100ppm
Aging, 1 st Year		±5 ppm max
Storage Temperature Range		-55°C to +125°C
Supply Voltage (Vcc)		2.5 V, 3.3 V
Supply Current		40 mA max
Output LVPECL	Symmetry	40% to 60% at 50% Vdd (45% to 55% Available)
	Rise / Fall Time	0.4 ns max at 10% to 90% Vdd
	Logic "0" Level	V _{OL} =0.9V min
	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

❖ MECHANICAL SPECIFICATION



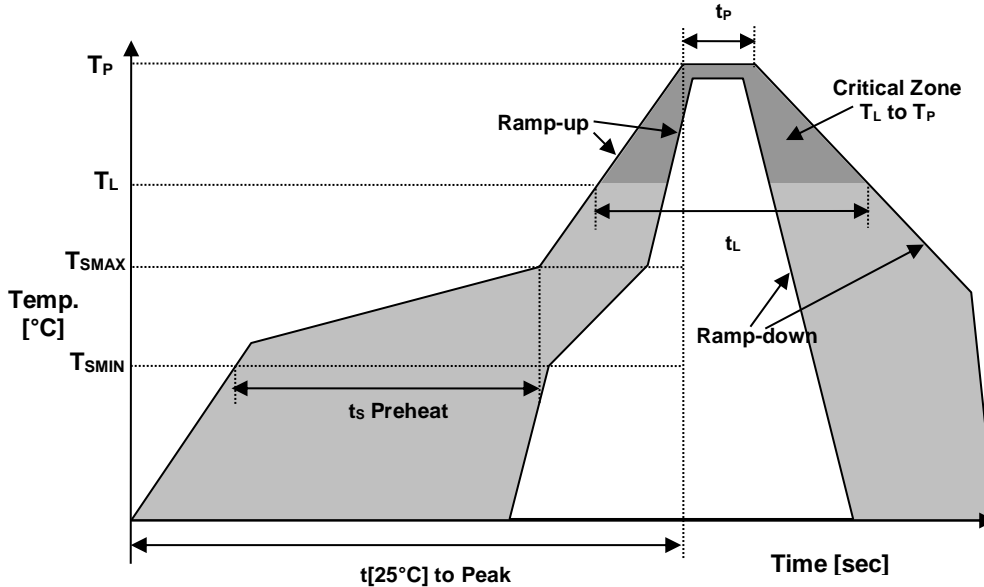
❖ PART NUMBERING SYSTEM

TYPE	SERIES	-	FREQUENCY (MHz)	-	SUPPLY VOLTAGE (Vcc)	-	STABILITY (ppm)	-	TEMPERATURE RANGE (°C)	-	SYMMETRY (Duty Cycle)	-	TAPE & REEL
Clock Oscillator RCL	2520	-	6.000 ~ 175.000 MHz	-	2.5: Vcc=2.5 3.3: Vcc=3.3	-	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

EXAMPLE: RCL2520-40.000-3.3-25-X-T-TR

Surface Mount CL2520 LVDS 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.

❖ REFLOW PROFILE



Reflow profile		
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 _L	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

