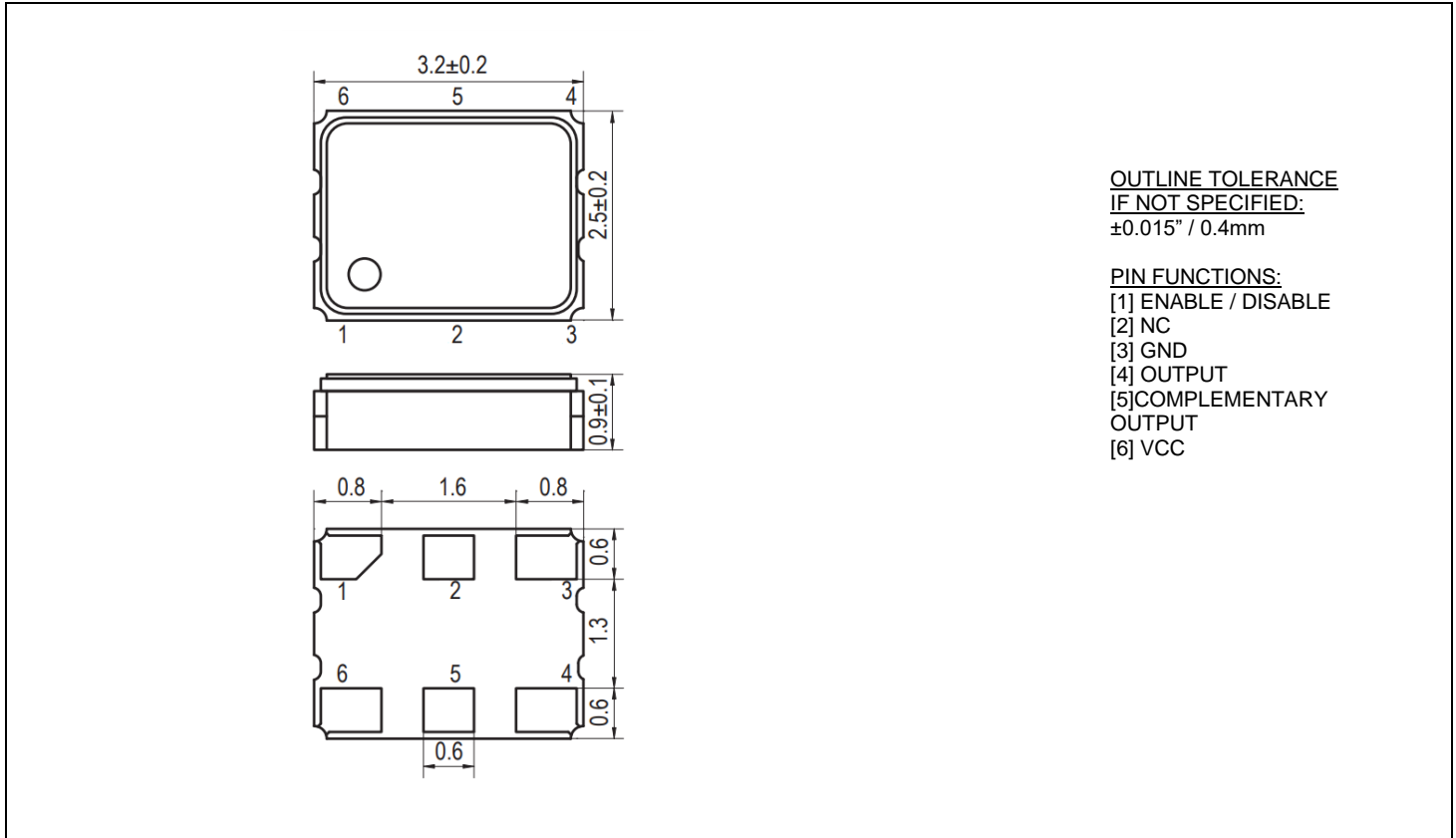


■ **ELECTRICAL SPECIFICATION**

PARAMETER		VALUE
Frequency Range		5.000 MHz ~ 250.000 MHz
Operating Temperature Range		-20°C ~ +70°C Standard -40°C ~ +85°C Extended
Frequency Stability, max		±20 ppm, ±25 ppm, ±30 ppm, ±50 ppm, ±100ppm
Aging, first year @+25°C, max		±5 ppm
Storage Temperature Range, Absolute Max		-50°C to +125°C
Supply Voltage (Vcc)		2.5 V±5%, 3.3 V ±5%
Standby Control Voltage (Pin 1)		V _{IH} : 70% Vcc min
		V _{IL} : 30% Vcc max
Supply Current		40 mA max
Standby Current		15 µA max
Output LVDS	Symmetry at 50% Wave form	45% ~ 55%
	Rise / Fall Time	0.4 ns max @ 20% ~ 80% Output swing level
	Logic "0" Level	0.9 V min
	Logic "1" Level	1.6 V max
	Load	100 Ω (OUT – OUT Differential)
Start-up time		10 ms max
SSB Phase Noise @ Vcc = 3.3V, 133.000MHz @ 100kHz offset		-153 dBc / Hz, typ
RMS Jitter (12kHz ~ 20 MHz) @ Vcc = 3.3V, 133.000MHz		125 fs typ, 500 fs max
Disable delay time		200 ns max
Enable delay time		4 ms max
Differential Output Voltage		0.33Vp-p typ (0.25Vp-p min)

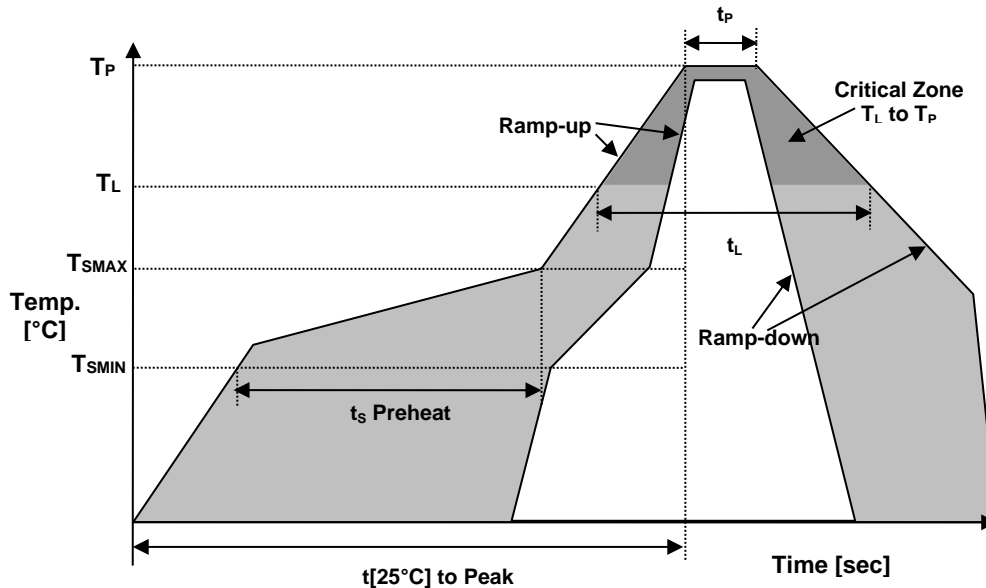
■ **MECHANICAL SPECIFICATION**



■ **PART NUMBERING SYSTEM**

TYPE	SERIES	-	FREQUENCY (MHz)	-	SUPPLY VOLTAGE (Vcc)	-	STABILITY (ppm)	-	TEMPERATURE RANGE (°C)	-	SYMMETRY (Duty Cycle)	-	TAPE & REEL
Clock Oscillator CLF	3225	-	5.000 ~ 175.000	-	2.5: Vcc=2.5 3.3: Vcc=3.3	-	20: ±20 ppm 25: ±25 ppm 30: ±30 ppm 50: ±50 ppm 100: ±100 ppm	-	blank: -20°C to +70°C X: -40°C to +85°C	-	T: 45 to 55%	-	TR

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 $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ 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

