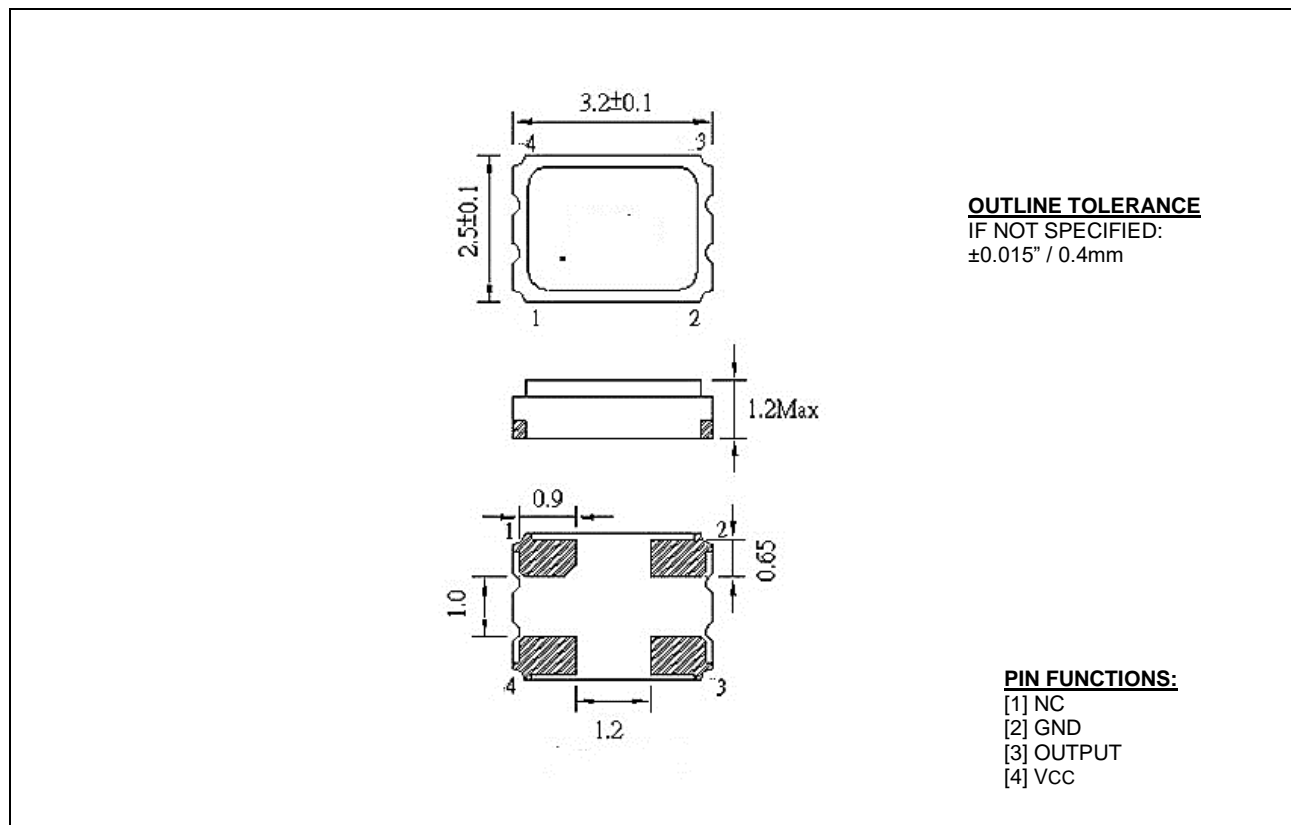


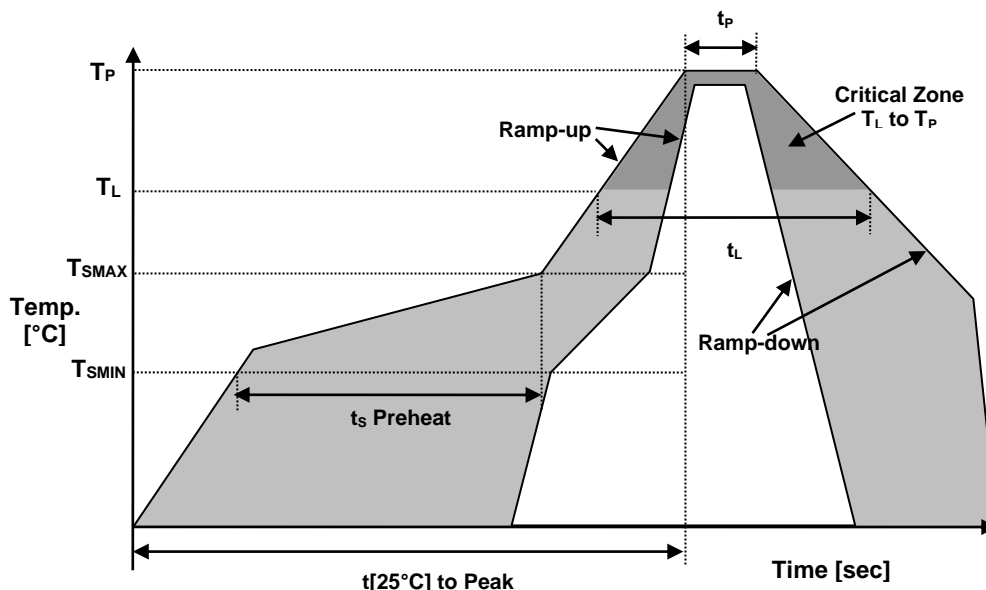
#### ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	$f_0$	$V_{CC} \pm 5\%$	30.000	MHz
Supply Voltage, nom	$V_{CC}$	---	3.3	VDC
Supply Current, max	$I_S$	$V_{CC} \pm 5\%$	2.5	mA
Operating Temperature Range	$T_a$		-40 ~ +85	°C
Storage Temperature Range	$T(stg)$	Absolute max	-40 ~ +85	°C
Frequency Stability				
vs. Temperature	$\Delta f/f_0(T_a)$	Reference to +25°C over Temperature Range	±2.0	ppm
vs. Supply Voltage	$\Delta f/f_V$	$V_{CC} \pm 5\%$	±0.2	ppm
vs. Load	$\Delta f/f_L$	Load ±10%	±0.2	ppm
vs. Aging max	$\Delta f/f_0(\text{year})$	First Year at +25°C ± 2°C	±1.0	ppm
Initial Frequency Calibration, max	$f_c$	Measured at 25°C, before shipment	±1.0	ppm
Reflow Shift, max	$\Delta f/fr$	2 consecutive reflows, after 2 hours relaxation	±1.0	ppm
Start-up Time, max	$T_s$	---	5	ms
Output Level, Clipped Sine Wave, min		10kΩ // 10 pF ±10%	0.8	$V_{P-P}$
Phase Noise	$\mathcal{L}(\Delta f)$	@1 kHz	-130	dBc/Hz

#### MECHANICAL SPECIFICATION



#### 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	Compliant
RoHS	Compliant
TERMINATION FINISH	Au





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Page 3 of 3

MARKING

Rx30.00
•DD33yw

x - Internal Production ID code
y - Year code
w - Week code

Table with 2 columns: Year, Code. Rows for years 2018-2029.

Table with 6 columns: Week, Code, Week, Code, Week, Code. Rows for weeks 1-18.

APPROVAL

Approval table with columns: Field, Value. Fields: DRAWN BY, APPROVED BY, REVISION.

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