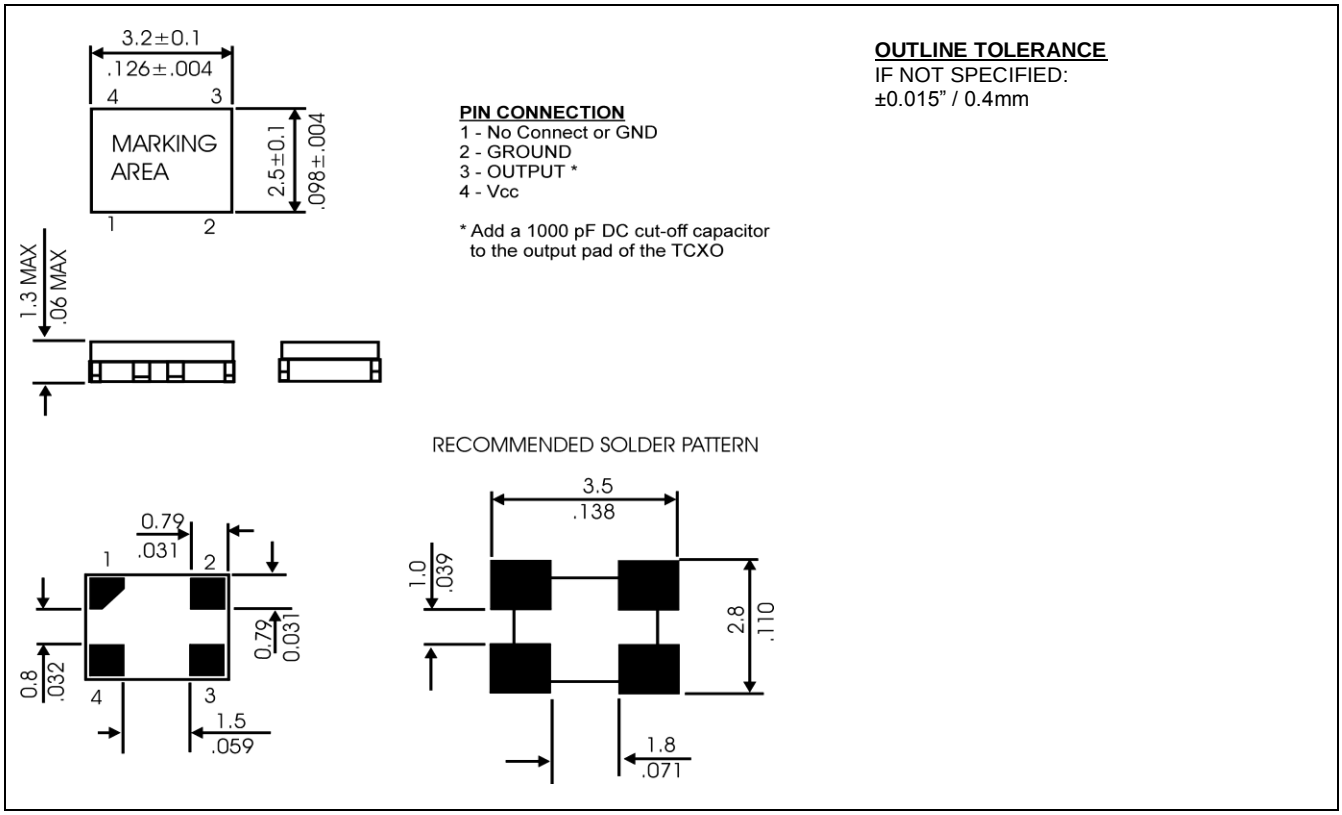
RTX-104CD31-S-25.000-TR

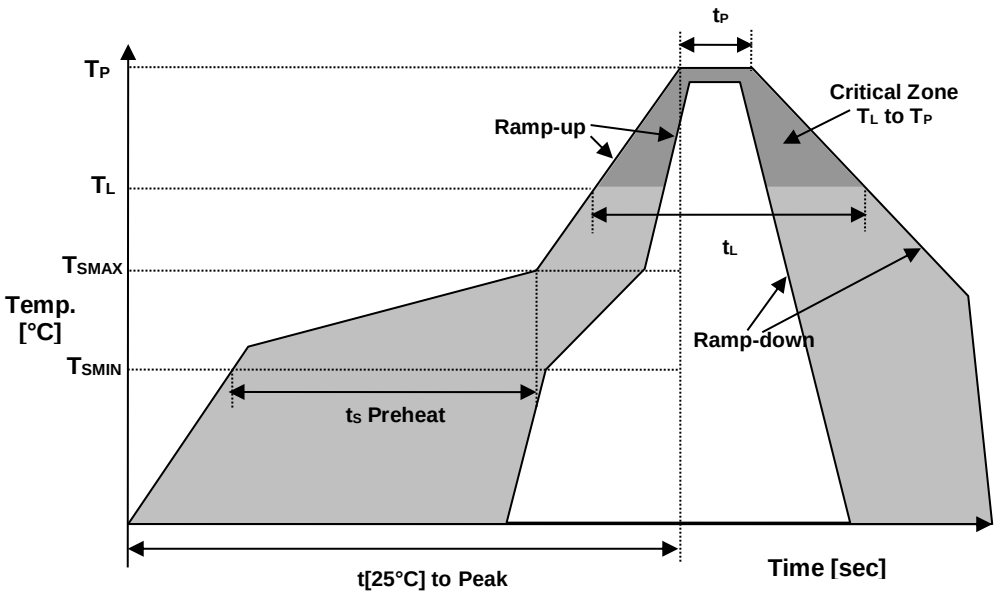
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Ta=25°C	25.000	MHz
Supply voltage range	V_{CC}	---	1.8	VDC
Supply current, max	I_S	Ta=25°C	2.0	mA
Operating temperature	Ta	---	-40 ~ +85	°C
Storage temperature	T(stg)	Absolute max	-40 ~ +85	°C
Frequency Stability				
vs. Temperature	Δf/fo(Ta)	Reference to +25°C over Temperature Range	±1.5	ppm
vs. Supply Voltage	$\Delta f/f_V$	Vcc=3.0 ± 0.15 V	±0.2	ppm
vs. Load	$\Delta f/f_L$	Load ±10%, Vcc=3.0 ±5%	±0.2	ppm
vs. Aging Max	Δf/fo(year)	Per Year at +25°C ± 2°C	±1.0	ppm
Initial Frequency Calibration, Max	f_C	Measured at 25°C, Reference to fo	±1.0	ppm
Output Level, Clipped Sine Wave, Minimum	-	10K Ohms // 10 pF ±10%	0.8	V_{P-P}
Start up time, Max	t_s	V_{OUT} ≥ 90% V_{P-P}	2	ms
Phase noise @ freq. offset, typical.	£ (Δf)	Δf=1kHz	-135	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°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	t_L	60-150 sec.

ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS2	Compliant
REACH-SVHC	Compliant
HALOGEN-FREE	Compliant
TERMINATION FINISH	Au

• MARKING

Rxx25.00

• CD31yw

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

YEAR CODE	
Year	Code
2011	1
2012	2
2013	3
2014	4
2015	5
2016	6
2017	7
2018	8
2019	9

ALPHA WEEK CODE TABLE					
Week	Code	Week	Code	Week	Code
1	a	19	s	37	K
2	b	20	t	38	L
3	c	21	u	39	M
4	d	22	v	40	N
5	e	23	w	41	O
6	f	24	x	42	P
7	g	25	y	43	Q
8	h	26	z	44	R
9	i	27	A	45	S
10	j	28	B	46	T
11	k	29	C	47	U
12	l	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	X
15	o	33	G	51	Y
16	p	34	H	52	Z
17	q	35	I		
18	r	36	J		

• APPROVAL

RALTRON	
DRAWN BY:	KJackson, July 20, 2017
APPROVED BY:	JIvens, July 20, 2017
REVISION:	A, Initial Release