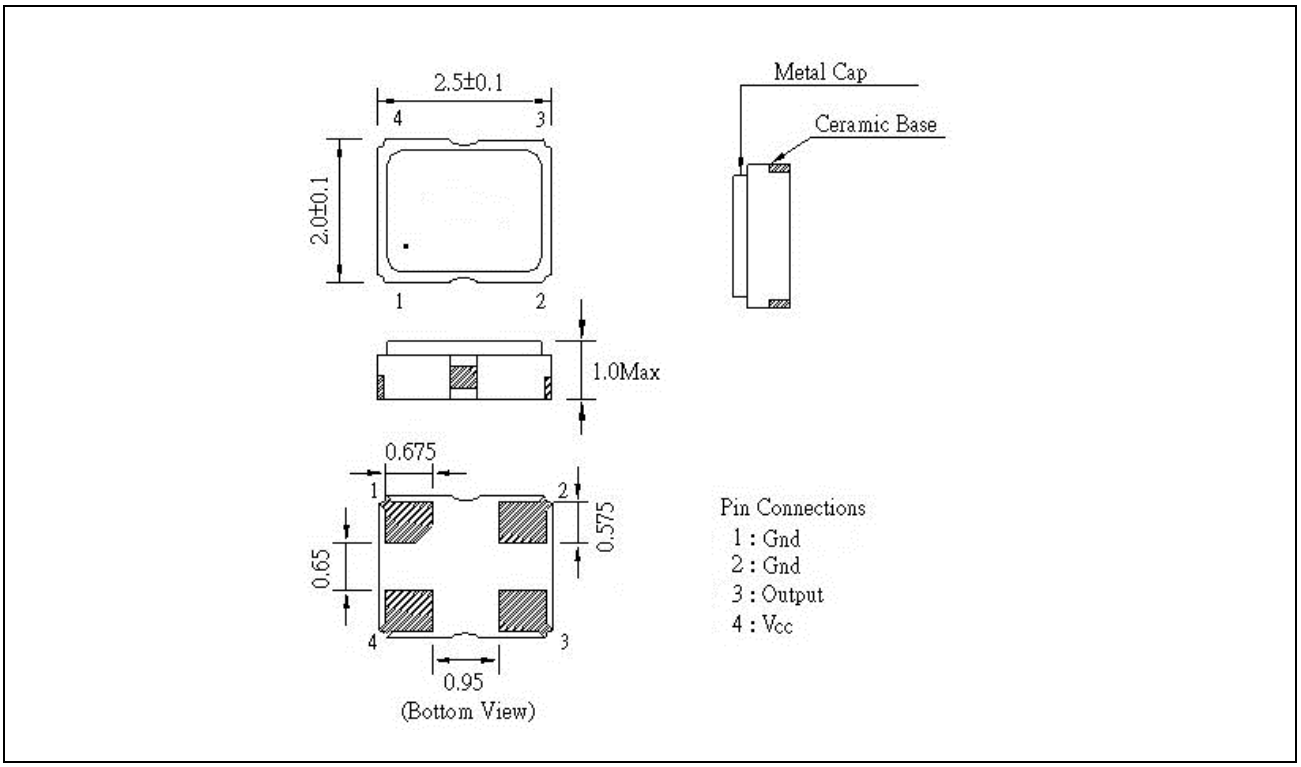
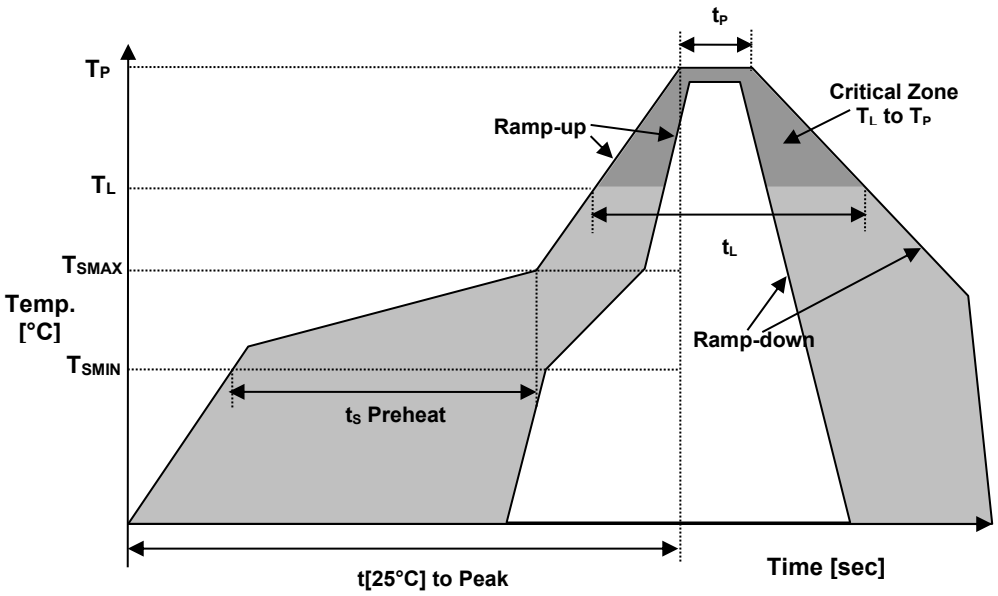
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Vcc ±5%	10.000	MHz
Supply Voltage, nom.	V_{CC}	Vcc ±10%	1.8 ~ 3.3	VDC
Supply Current, max	I_S	Vcc ±5%	2	mA
Operating Temperature Range	Ta		-30 ~ +85	°C
Storage Temperature Range	T(stg)	Absolute max	-40 ~ +85	°C
Frequency Stability vs. Temperature	Δf/fo(Ta)	Reference to +25°±2°C (-30 ~ +85°C)	±0.5	ppm
Frequency Stability vs. Supply Voltage vs. Load vs. Aging max	 $\Delta f/f_V$ $\Delta f/f_L$ Δf/fo(year)	 Vcc ±5% Load ±10% Per Year at +25°C ± 2°C	 ±0.2 ±0.2 ±1.0	 ppm ppm ppm
Initial Frequency Calibration, max		Measured at 25°C, after 2 reflows	±2.0	ppm
Output Level, Clipped Sine Wave		10kΩ // 10 pF ±10%	0.8	V_{P-P}

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
REACH	Compliant
RoHS	Compliant
TERMINATION FINISH	Au

• MARKING

Rx10.0
•AFFyw

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		

■ APPROVALS

RALTRON
Created by, date: AR, January 28, 2019
Eng. approval, date: CP, January 28, 2019
Revision: A