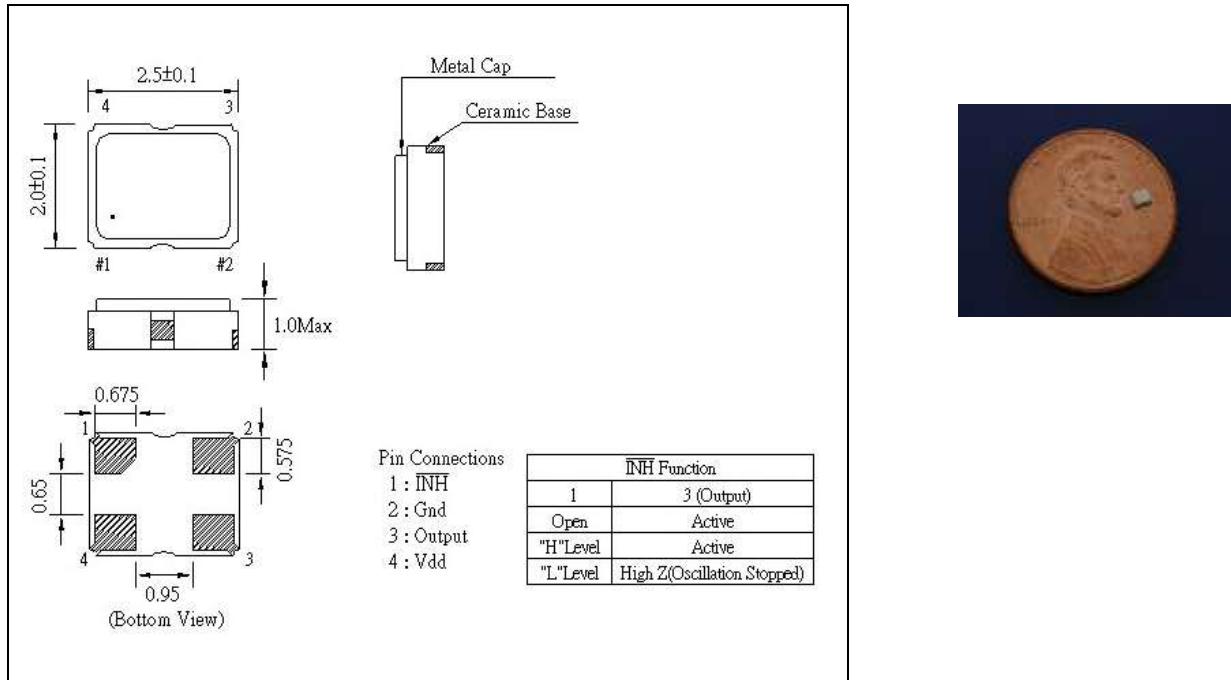


■ ELECTRICAL SPECIFICATION

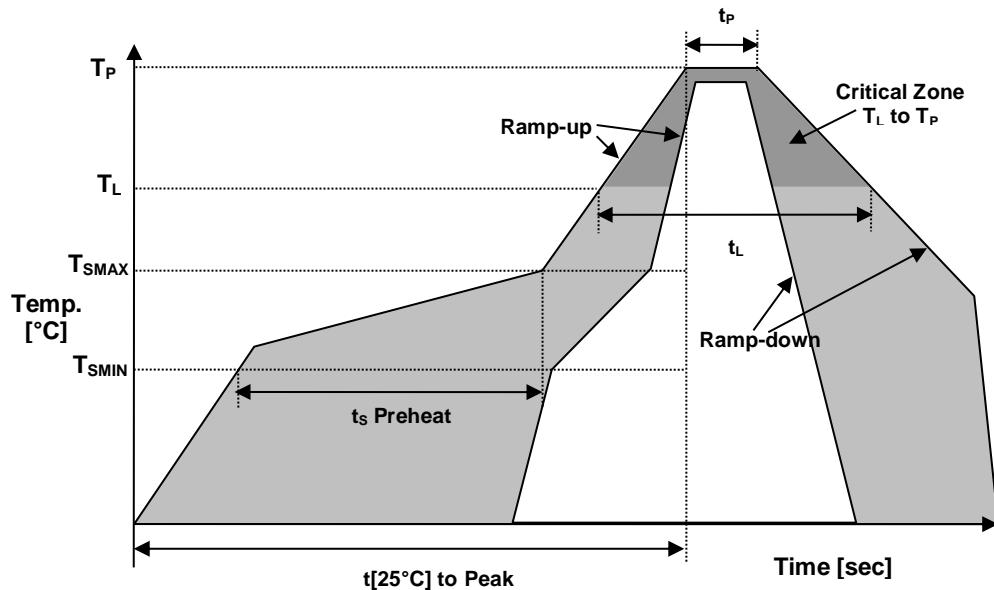
PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Ta=25°C	25.000	MHz
Supply voltage range	V <sub>cc</sub>	---	3.3	VDC
Supply current, max	I <sub>s</sub>	Ta=25°C	2.5	mA
Operating temperature	T <sub>a</sub>	---	-40 ~ +85	°C
Storage temperature	T <sub>(stg)</sub>	Absolute max	-55 ~ +125	°C
Frequency Tolerance	Δf/fo	Inclusive of 25°C Tolerance and Changes due to Operating Temperature, Supply Voltage, Load, Aging, Shock and Vibration	±50	ppm
Output Voltage	V <sub>OL</sub>	Logic "0" Level	0.1 x V <sub>cc</sub>	VDC
	V <sub>OH</sub>	Logic "1" Level	0.9 x V <sub>cc</sub>	VDC
Output Load	---	CMOS Output	15	pF
Enable / Disable Function	E/D	Pin 1: N.C. (Open) or High	Pin 3 – Oscillation (Enabled)	
		Pin 1: Low	Pin 3 – High Impedance (Disabled)	
Symmetry (Duty Cycle)	DC	@50% V <sub>dd</sub>	45 to 55	%
Rise Time and Fall Time, Max	t <sub>r</sub> / t <sub>f</sub>	@10% to 90% V <sub>dd</sub>	10	ns
Stand-by Current	I <sub>(std)</sub>	---	10	μA
Start up time, Max	t <sub>s</sub>	V <sub>OUT</sub> ≥ 90% V <sub>P-P</sub>	10	ms

■ MECHANICAL SPECIFICATION



NOTE: A capacitor of 0.01 μF between Vcc and Ground is recommended

■ REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	$T_{S\text{MIN}}$	150°C
Temperature Max Preheat	$T_{S\text{MAX}}$	200°C
Time ( $T_{S\text{MIN}}$ to $T_{S\text{MAX}}$ )	$t_S$	60-180 sec.
Temperature	$T_L$	217°C
Peak Temperature	$T_P$	260°C
Ramp-up rate	$R_{\text{UP}}$	3°C/sec max.
Ramp-down rate	$R_{\text{DOWN}}$	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
RoHS	Compliant
REACH-SVHC	Compliant
HALOGEN-FREE	Compliant
TERMINATION FINISH	Au



• **MARKING**

Rx25.0T  
 •33BEyw

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:	CP, December 22, 2014
APPROVED BY:	CP, December 22, 2014
REVISION:	A, Initial Release
	B, Updated to current spec levels KJ 3/25/19

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