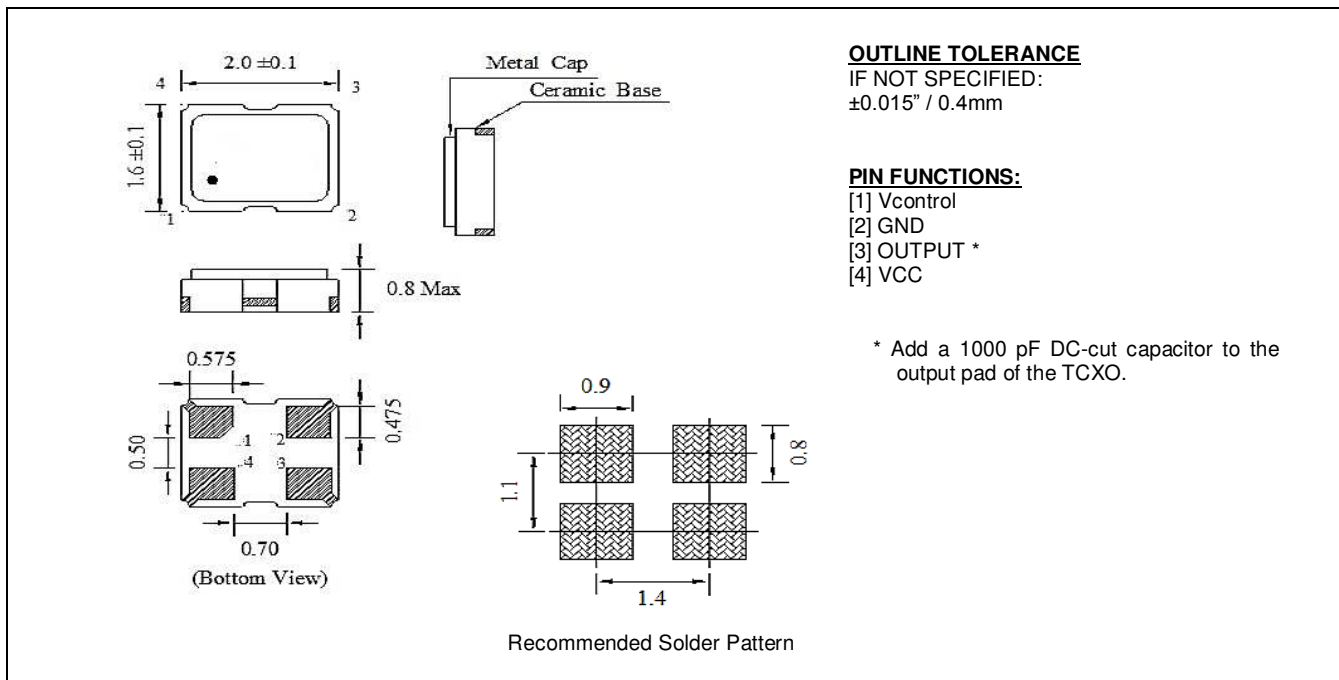


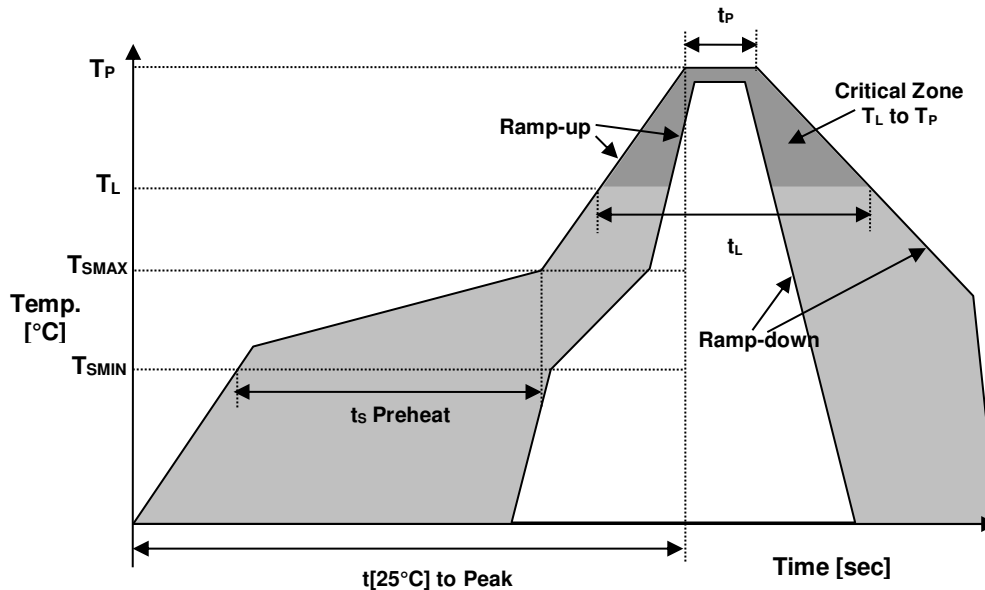
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT	
Nominal Frequency	f_0	$V_{CC} \pm 5\%$	10.000	MHz	
Supply Voltage, nom.	V_{CC}	$V_{CC} \pm 5\%$	3.3	VDC	
Supply Current, max	I_S	$V_{CC} \pm 5\%$	2.0	mA	
Operating Temperature Range	T_a		-40 ~ +85	°C	
Storage Temperature Range	$T(stg)$	Absolute max	-40 ~ +95	°C	
Frequency Stability, max	vs. Temperature	$\Delta f/f_0(T_a)$	Reference to +25°±2°C (-40 ~ +85°C)	±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
Aging, max	$\Delta f/f_0(\text{year})$	Per year, @25°C	±1.0	ppm	
Initial Frequency Calibration, max	f_c	@25°C	±1.0	ppm	
Output Level, Clipped Sine Wave	-	10 kΩ // 10 pF ±10%	0.8	V _{P-P}	
Voltage Control Range, min/max	V_C	$V_C = 1.5 \pm 1.0V$	±5 to ±10	ppm	
Symmetry			40 ~ 60	%	
Start-up time, max	t_s	$V_{OUT} \geq 90\% V_{P-P}$	2.0	ms	
Phase Noise, max		$\Delta f=100 \text{ Hz}$	-110	dBc/Hz	
		$\Delta f=1 \text{ kHz}$	-130	dBc/Hz	
		$\Delta f=10 \text{ kHz}$	-140	dBc/Hz	
		$\Delta f=100 \text{ kHz}$	-145	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-SVHC	Compliant
RoHS	Compliant
TERMINATION FINISH	Au



MARKING

R10.00

•DD3w

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

DRAWN BY:	LP, June 20, 2018
APPROVED BY:	JL, June 20, 2018
REVISION:	A, Initial Release

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