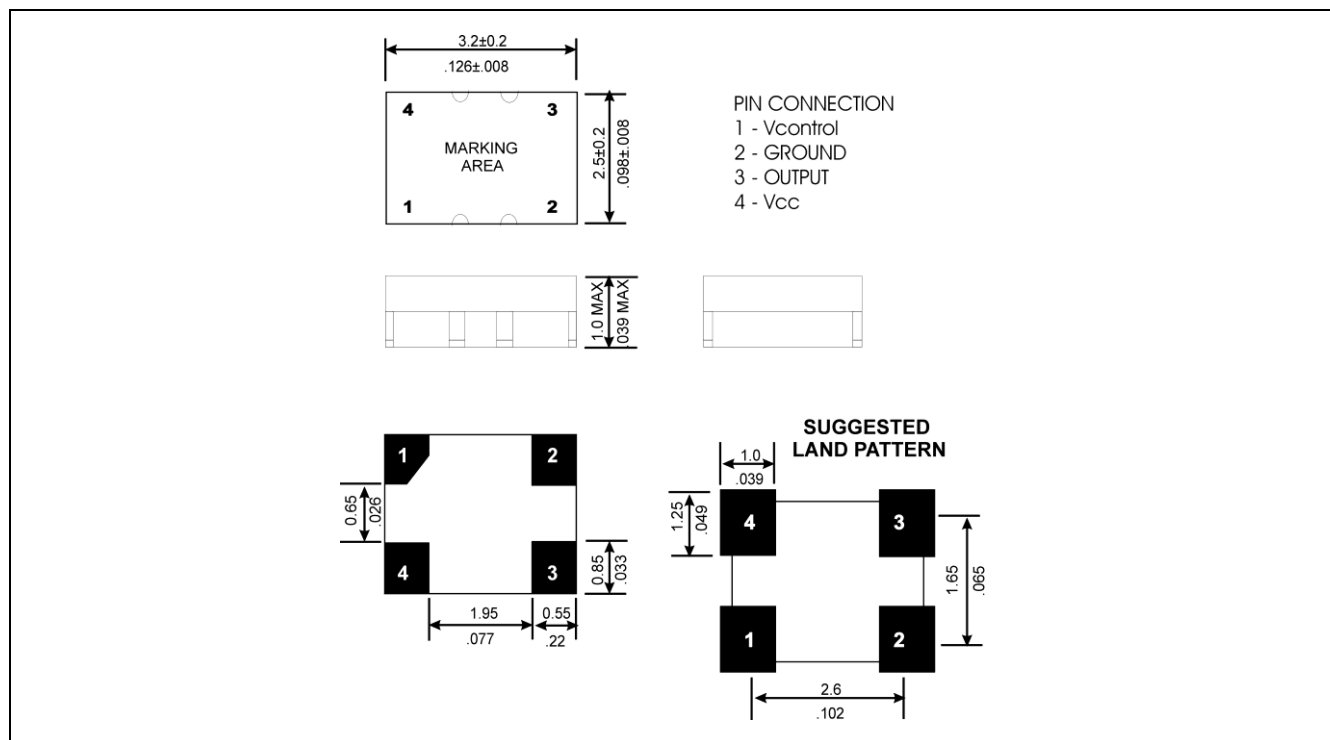


ELECTRICAL SPECIFICATION

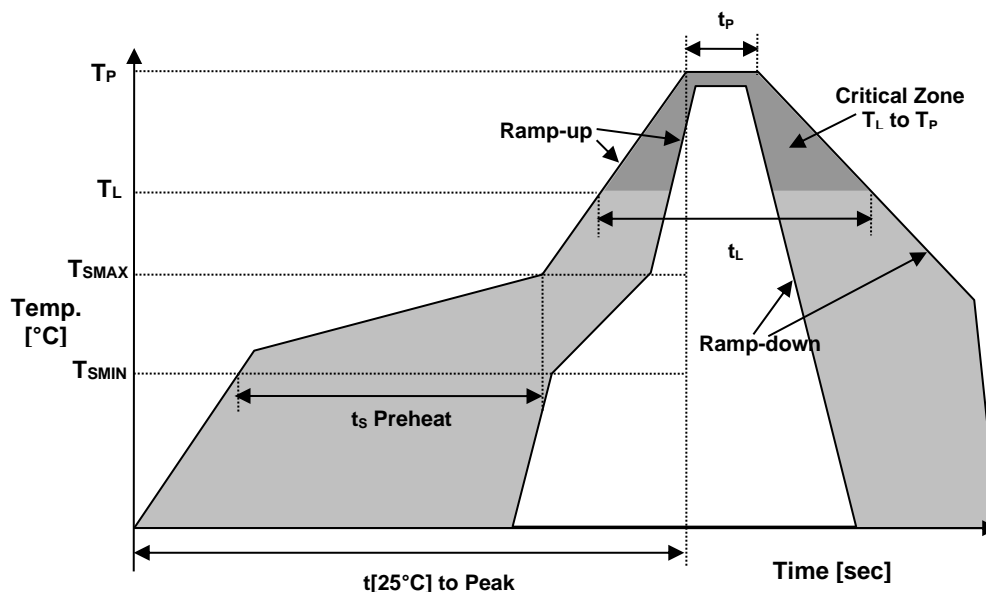
PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	f_o	$V_{cc} \pm 5\%$	19.200	MHz
Supply voltage, nom.	V_{cc}	$V_{cc} \pm 5\%$	2.8	VDC
Supply current, max	I_s	$V_{cc} \pm 5\%$	1.5	mA
Operating temperature	T_a		-30 ~ +85	°C
Storage temperature	$T(stg)$	Absolute max	-40 ~ +90	°C
Frequency Stability				
vs. Temperature, Max	$\Delta f/f_o(T_a)$	Reference to +25°C over -30°C to +85°C	±0.5	ppm
vs. Supply Voltage, Max	$\Delta f/f_v$	$V_{cc} \pm 5\%$	±0.2	ppm
vs. Load, Max	$\Delta f/f_L$	Load ±10%	±0.2	ppm
vs. Aging, Max	$\Delta f/f_o(\text{per year})$	1 Year at +25°C ± 2°C	±1.0	ppm
Initial Frequency Calibration, Max	f_c	Measured at 25°C, Reference to f_o	±2.0	ppm
Output Level, Clipped Sine Wave, Minimum	-	10K Ohms // 10 pF ±10%	0.8	V _{P-P}
Voltage Control Range	V_c	$V_c = 0.5V_{dc}$ to $2.5V_{dc}$	±8 to ±15	ppm

MECHANICAL SPECIFICATION



NOTE: Add a 1000 pF DC-cut capacitor to the output pad of the TCXO.

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	6/6 COMPLIANT & LEAD FREE
REACH-SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
TERMINATION FINISH	Au



• MARKING

Rxx19.2
•AF328yw

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, August 12, 2014
APPROVED BY:	KJackson, August 12, 2014
REVISION:	A, Initial Release

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