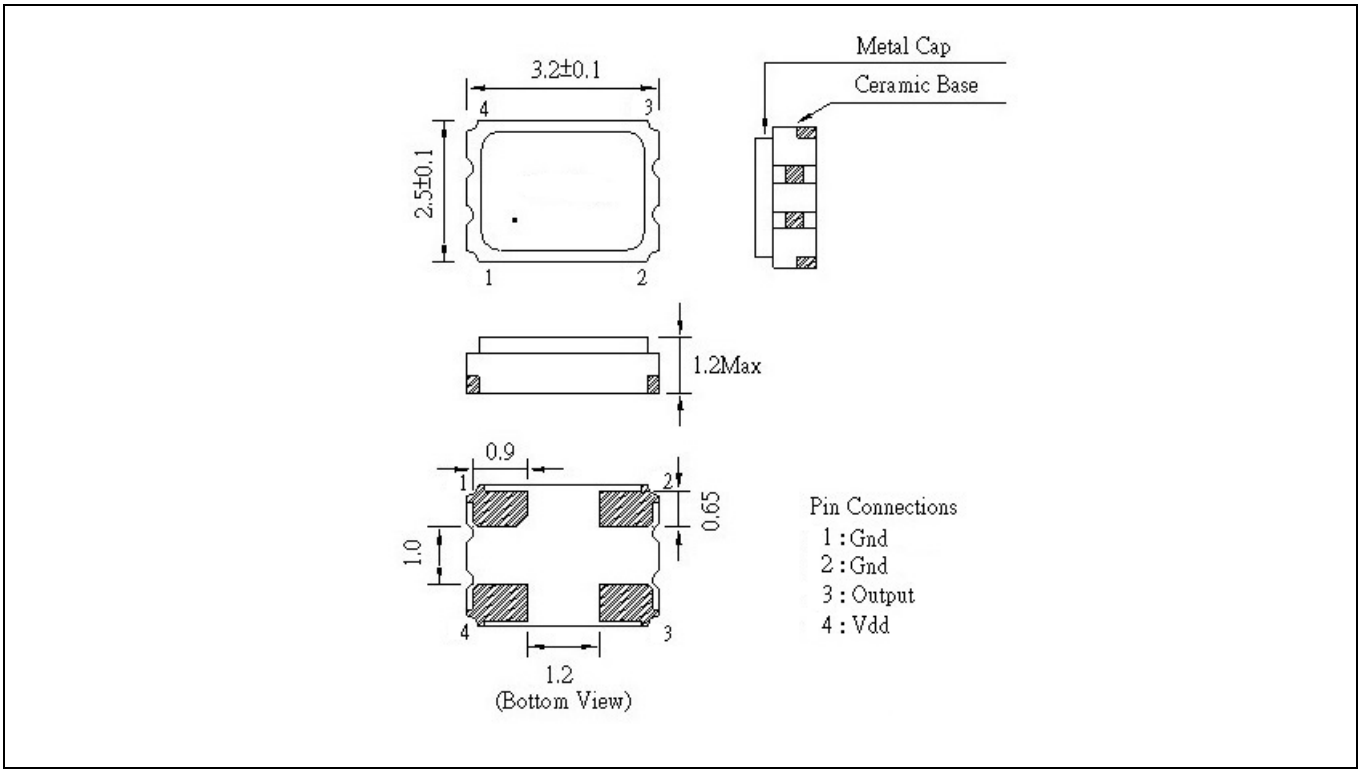
RTX-104AF333-S-26.000-TR

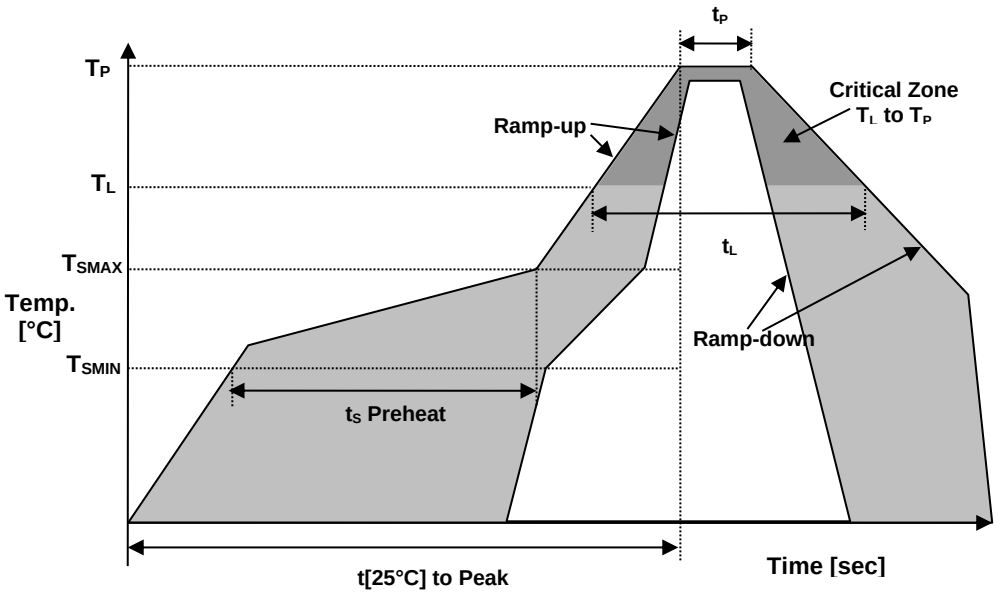
ELECTRICAL SPECIFICATION

PARAMETER		SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency		fo	Ta=25℃	26.000	MHz
Supply Voltage		V_{CC}	V_{CC} ±5%	3.3	VDC
Supply Current, max		I_S	Ta=25℃	2.0	mA
Operating Temperature Range		Ta		-30 ~ +85	℃
Storage Temperature Range		T(stg)	Absolute max	-40 ~ +125	℃
Frequency Stability	vs. Temperature, max	Δf/fo(Ta)	Reference to +25℃ over Temperature Range	±0.5	ppm
	vs. Supply Voltage, max	$\Delta f/f_V$	V_{CC} ±5%	±0.2	ppm
	vs. Load, max	$\Delta f/f_L$	Load ±10%	±0.2	ppm
	vs. Aging, max	Δf/fo(year)	First Year at +25°C ± 2°C	±1.0	ppm
Initial Frequency Calibration, max		fc	Measured at 25°C, before shipment	±1.0	ppm
Reflow Shift		Δf/fr	2 consecutive reflows, after 24 hours relaxation	±1.0	ppm
Output Level, Clipped Sine Wave, min			10 kΩ // 10 pF ±10%	0.8	V_{P-P}
Harmonics, max				-8	dBc
Start-up Time, max		t_s	V_{OUT} ≥ 90% V_{P-P}	2	ms
Phase noise @ freq. offset, typ		£ (Δf)	Δf=10 Hz	-83	dBc/Hz
		£ (Δf)	Δf=100 Hz	-108	dBc/Hz
		£ (Δf)	Δf=1kHz	-135	dBc/Hz
		£ (Δf)	Δf=10kHz	-148	dBc/Hz
		£ (Δf)	Δf=10kHz	-149	dBc/Hz
		£ (Δf)	Δf=1 MHz	-150	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
RoHS	Compliant
REACH-SVHC	Compliant
HALOGEN-FREE	Compliant
TERMINATION FINISH	Au

MARKING

Rx26.0
•AF3yw

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

YEAR CODE	
Year	Code
2018	8
2019	9
2020	0
2021	1
2022	2
2023	3
2024	4
2025	5
2026	6
2027	7
2028	8
2029	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, May 12, 2016
APPROVED BY:	KJackson, May 12, 2016
REVISION:	A, Initial Release B, Updated storage temp, stability vs supply voltage, drawing and marking by XLiu, July 18, 2024