



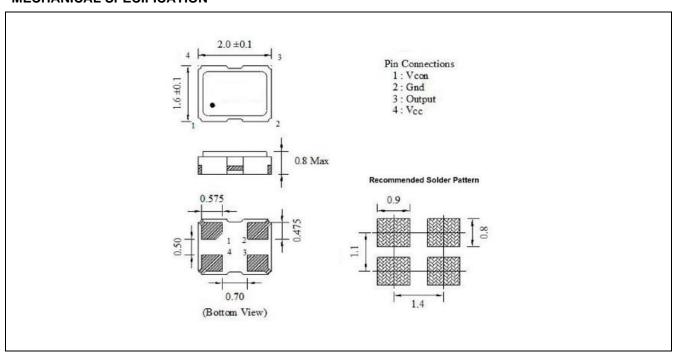
# RTV-2016AHZ3325-S-38.400-TR

Page 1 of 3

#### ELECTRICAL SPECIFICATION

PARAMETER SYMBOL		CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Vcc ±5% @ Vc=0.9 V	38.400	MHz
Supply Voltage, nom.	V <sub>cc</sub>	Vcc ±5%	3.3	Vdc
Supply Current, max	Is	Vcc ±5%	1.7	mA
Operating Temperature Range	Та		-20 ~ +70	°C
Storage Temperature Range	T(stg)	Absolute max	-55 ~ +125	°C
Frequency Stability, max				
vs. Temperature	∆f/fo(Ta)	Reference to +25°±2°C (-20 to + 70°C)	±0.5	ppm
vs. Supply Voltage	$\Delta f/f_{ m V}$	Vcc ±5%	±0.2	ppm
vs. Load	$\Delta f/f_L$	Load ±10%	±0.2	ppm
vs. Aging	∆f/fo(year)	Per Year at +25°C ± 2°C	±1.0	ppm
Initial Frequency Calibration, max	f <sub>C</sub>	Measured at 25°C, Reference to fo, Vc=0.9 Vdc (after 2 times reflow)	±2.0	ppm
Output Level, Clipped Sine Wave		10 kΩ // 10 pF ±10%	0.8	$V_{P-P}$
Voltage Control Range	Vc	Vc = 0.1 Vdc to 1.7 Vdc	±8 to ±13	ppm
Start-up Time	ts	Ta=25°C, Vout ≥ 90% Vp-p	5.0	ms
Phase Noise	£ (∆f)	@1kHz	-130	dBc/Hz

#### MECHANICAL SPECIFICATION

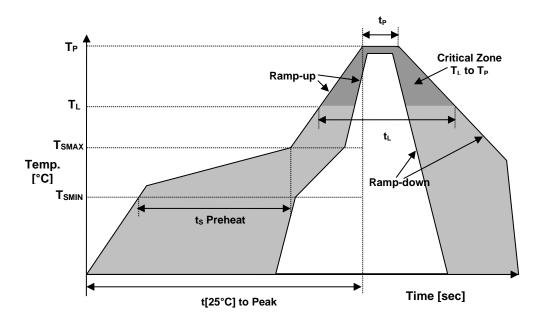




# RTV-2016AHZ3325-S-38.400-TR

Page 2 of 3

### REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	T <sub>SMIN</sub>	150°C
Temperature Max Preheat	T <sub>SMAX</sub>	200°C
Time (T <sub>SMIN</sub> to T <sub>SMAX</sub> )	t <sub>S</sub>	60-180 sec.
Temperature	TL	217°C
Peak Temperature	$T_P$	260°C
Ramp-up rate	R <sub>UP</sub>	3°C/sec max.
Ramp-down rate	R <sub>DOWN</sub>	6°C/sec max.
Time within 5°C of Peak Temperature	t <sub>P</sub>	10 sec.
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	t <sub>L</sub>	60-150 sec.

### ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
REACH-SVHC	Compliant
RoHS2	Compliant
TERMINATION FINISH	Au





**TCXO** 

# RTV-2016AHZ3325-S-38.400-TR

Page 3 of 3

### MARKING

Rx384 •B3yw

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	а	19	S	37	K
2	b	20	t	38	L
3	С	21	u	39	M
4	d	22	٧	40	N
5	е	23	W	41	0
6	f	24	Х	42	Р
7	g	25	У	43	Q
8	h	26	Z	44	R
9	i	27	Α	45	S
10	j	28	В	46	Т
11	k	29	С	47	U
12	1	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	X
15	0	33	G	51	Υ
16	р	34	Н	52	Z
17	q	35			
18	r	36	J		

#### APPROVALS

RALTRON		
Created by, date:	F. Parra, 11 December 2015	
Eng. approval, date:	F. Parra, 11 December 2015	
Revision:	A, Initial Release B, CP, February 28, 2023 Updated to the current spec levels	

Raltron Electronics/RAMI Technology USA, LLC, including its affiliates, employees, agents and other persons acting on its behalf (collectively Raltron/RAMI Tech), disclaim any and all liability for any errors or inaccuracies contained in this data sheet. While Raltron/RAMI Tech has made every reasonable effort to ensure the accuracy of all product information, specifications and data contained herein, Raltron/RAMI Tech does not guarantee that the information is accurate, reliable or current. The product information is provided for reference purposes only and is subject hange, correction or revision, at any time without notice. Raltron/RAMI Tech does not assume any liability arising out of an application or use of any product described herein and disclaims any warranties expressed or implied. The user of products in such applications shall assume all risks of such use and will agree to hold Raltron/RAMI Tech, harmless against all damages.