

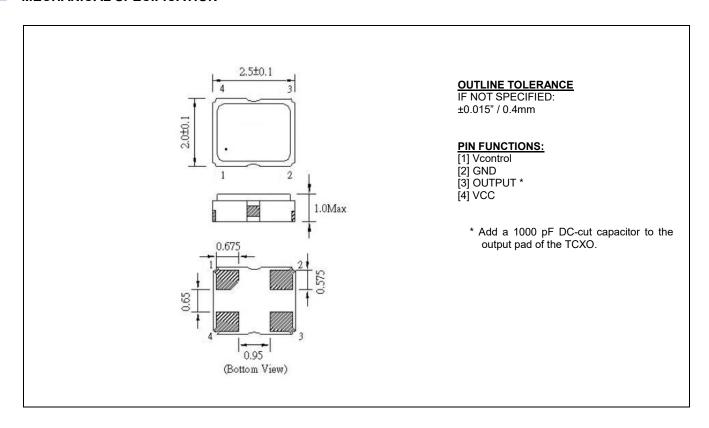
# RTV-2520AD333H-S-19.200-TR

Page 1 of 3

#### ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Vcc ±5%	19.200	MHz
Supply Voltage, nom.	V <sub>cc</sub>	Vcc ±5%	3.3	VDC
Supply Current, max	Is	Vcc ±5%	1.5	mA
Operating Temperature Range	Та		-40 ~ +85	°C
Storage Temperature Range	T(stg)	Absolute max	-40 ~ +85	°C
Frequency Stability				
vs. Temperature, max	∆f/fo(Ta)	Reference to +25°±2°C (-40 to 85°C)	±0.5	ppm
vs. Supply Voltage	$\Delta f/f_{V}$	Vcc ±5%	±0.2	ppm
vs. Load	$\Delta f/f_L$	Load ±10%	±0.2	ppm
vs. Aging Max	∆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 after 2 reflows	±2.0	ppm
Output Level, Clipped Sine Wave	-	10kΩ // 10 pF ±10%	0.8	V <sub>P-P</sub>
Voltage Control Range	Vc	V <sub>C</sub> = 1.65 ±1.0 Vdc	±18	ppm
Start up time, max	t <sub>s</sub>	V <sub>OUT</sub> ≥ 90% V <sub>P-P</sub>	2.0	ms

### ■ MECHANICAL SPECIFICATION

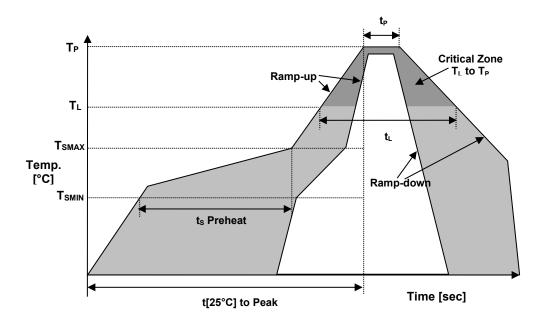




# RTV-2520AD333H-S-19.200-TR

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	$T_L$	217°C
Peak Temperature	T <sub>P</sub>	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
RoHS	COMPLIANT
TERMINATION FINISH	Au



## TCXO

## RTV-2520AD333H-S-19.200-TR

Page 3 of 3

#### MARKING

Rx192 •AD3yw

x – Internal Production ID code

y – Year code

w - Week code

YEAR CODE		
Year	Code	
2015	5	
2016	6	
2017	7	
2018	8	
2019	9	
2020	0	
2021	1	
2022	2	
2023	3	
2024	4	
2025	5	

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	М
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	I	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	Х
15	О	33	G	51	Υ
16	р	34	Н	52	Z
17	q	35			
18	r	36	J		_

### APPROVALS

RALTRON		
DRAWN BY:	CP, June 20, 2019	
APPROVED BY:	AR, June 20, 2019	
REVISION:	A, Initial Release	

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