

TCXO

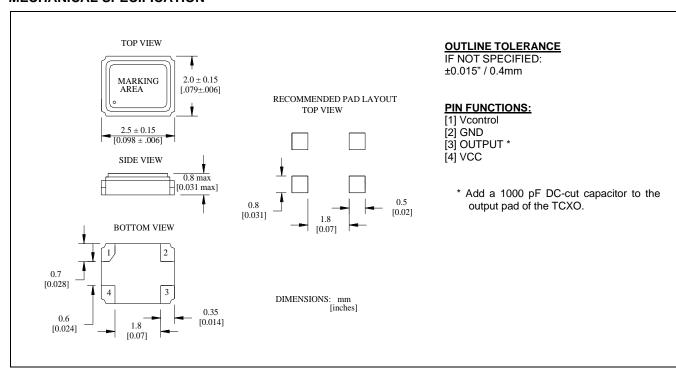
RTV-2520A333H-S-19.200-TR, Rev B

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ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Vcc ±5%	19.200	MHz
Supply voltage, nom.	V _{cc}	Vcc ±5%	3.3	VDC
Supply current, max	Is	Vcc ±5%	1.5	mA
Operating temperature	Ta		-40 ~ +85	°C
Storage temperature	T(stg)	Absolute max	-40 ~ +85	°C
Frequency Stability				
vs. Temperature, Max	∆f/fo(Ta)	Reference to +25°±2°C (-30 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 _C	Measured at 25°C, Reference to fo	±2.0	ppm
Output Level, Clipped Sine Wave	=	10kΩ // 10 pF ±10%	0.8	V_{P-P}
Voltage Control Range, Min	Vc	$V_c = 1.65 \pm 1.0 \text{ Vdc}$	±18	ppm
Start up time, Max	t _s	V _{OUT} ≥ 90% V _{P-P}	2.0	ms

■ MECHANICAL SPECIFICATION

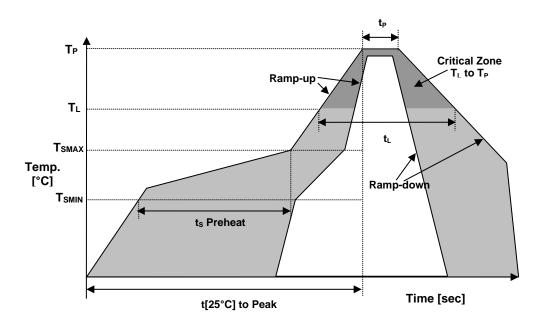




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REFLOW PROFILE



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₽	10 sec.	
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.	
Time	tL	60-150 sec.	

ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
REACH-SVHC	COMPLIANT
RoHS2	6/6 LEAD FREE
TERMINATION FINISH	Au





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MARKING

Rx192 •D3yw

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	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	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:	KJackson, May 31, 2016
Eng. approval, date:	KJackson, May 31, 2016
Rev: A	
Rev: B Control voltage range updated KJ 7/28/16	

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