

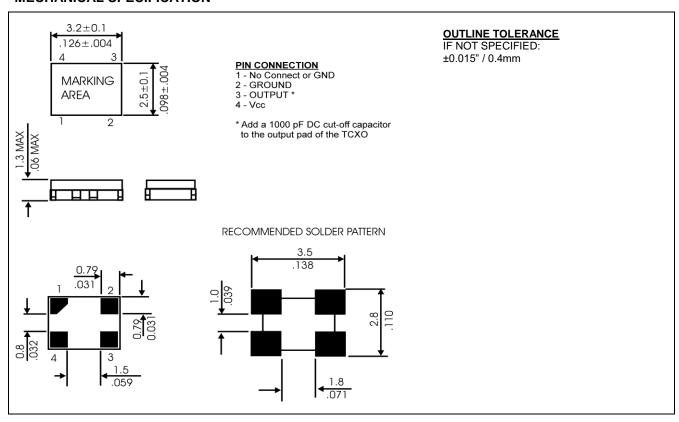
TCXO

RTX-104CD31-S-25.000-TR

ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Ta=25°C	25.000	MHz
Supply voltage range	V _{cc}		1.8	VDC
Supply current, max	Is	Ta=25°C	2.0	mA
Operating temperature	Та		-40 ~ +85	°C
Storage temperature	T(stg)	Absolute max	-40 ~ +85	°C
Frequency Stability				
vs. Temperature	∆f/fo(Ta)	Reference to +25°C over Temperature Range	±1.5	ppm
vs. Supply Voltage	$\Delta f/f_{V}$	Vcc= ± 5%	±0.2	ppm
vs. Load	$\Delta f/f_L$	Load ±5%, Vcc= ±5%	±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, Minimum	-	10 kΩ // 10 pF ±5%	0.8	V_{P-P}
Start up time, Max	t _s	V _{OUT} ≥ 90% V _{P-P}	2.0	ms
	£ (∆f)	Δf=100 Hz	-110	dBc/Hz
Phase noise @ freq. offset, typical.	£ (∆f)	Δf=1 kHz	-130	dBc/Hz
	£ (∆f)	Δf=10 kHz	-142	dBc/Hz
	£ (∆f)	Δf=100 kHz	-147	dBc/Hz

MECHANICAL SPECIFICATION



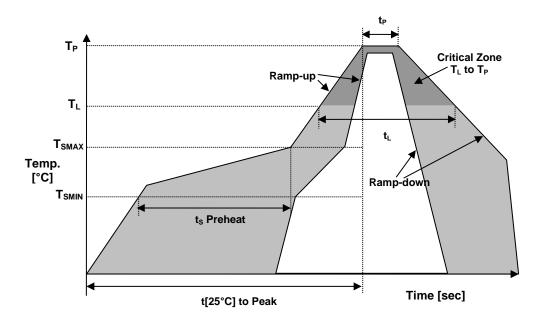
RALTRON ELECTRONICS • 10400 N.W. 33rd Street • Miami, Florida 33172 • U.S.A. Telephone: 305-593-6033 • Fax: 305-594-3973 • e-mail: sales@raltron.com • web: http://www.raltron.com



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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})	ts	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



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RTX-104CD31-S-25.000-TR

MARKING

Rx25.000 • C31yw

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	Ν
5	е	23	W	41	0
6	f	24	Х	42	Р
7	g	25	У	43	D
8	h	26	Z	44	R
9	i	27	Α	45	S
10	j	28	В	46	Т
11	k	29	С	47	C
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	I		
18	r	36	J		

APPROVAL

	RALTRON
DRAWN BY:	LP, December 07, 2016
APPROVED BY:	Cp, December 07, 2016
REVISION:	A, Initial Release

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