

**TCXO** 

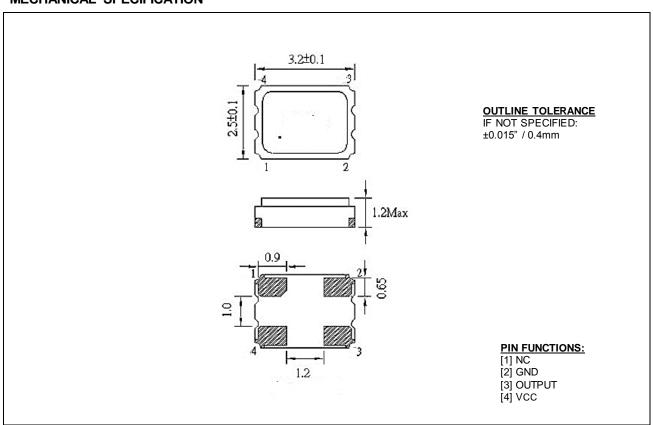
# RTX-104DD3C-S-25.000-TR

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#### ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Vcc ±5%	25.000	MHz
Supply Voltage, nom	V <sub>cc</sub>		2.8 ~ 3.3	VDC
Supply Current, max	I <sub>s</sub>	Vcc ±5%	2.0	mA
Operating Temperature Range	Ta		-40 ~ +85	°C
Storage Temperature Range	T(stg)	Absolute max	-40 ~ +85	°C
Frequency Stability vs. Temperature	∆f/fo(Ta)	Reference to +25°C over Temperature Range	±2.0	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)	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, max	∆f/fr	2 consecutive reflows, after 2 hours relaxation	±1.0	ppm
Start-up Time, max	Ts		5	ms
Output Level, Clipped Sine Wave, min		10kΩ // 10 pF ±10%	0.8	$V_{P-P}$
Phase Noise	£ (∆f)	@1 kHz	-130	dBc/Hz

### ■ MECHANICAL SPECIFICATION

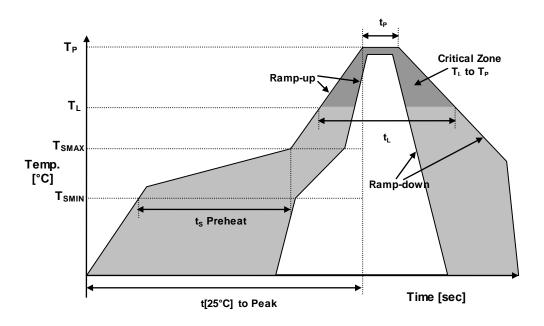




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#### REFLOW PROFILE



	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 <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,	60-150 sec.

#### ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
REACH	Compliant
RoHS	Compliant
TERMINATION FINISH	Au





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#### MARKING

Rx25.00 •DDCyw

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	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	Е	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		

### APPROVAL

	RALTRON
DRAWN BY:	AR, June 01, 2021
APPROVED BY:	CP, June 01, 2021
REVISION:	A, Initial Release

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