

TCXO

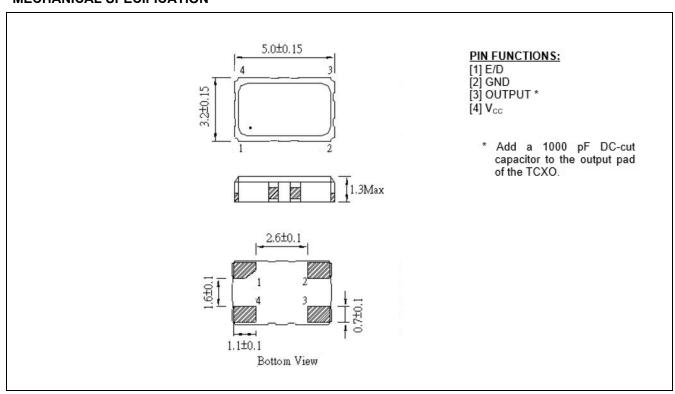
RTXE-124ED333-C-50.000-TR

Page 1 of 3

ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Vcc ±5%	50.000	MHz
Supply Voltage, nom.	V _{cc}	Vcc ±5%	3.3	VDC
Supply Current, max	Is	Vcc ±5%	7	mA
Operating Temperature Range	Та		-40 ~ +85	°C
Storage Temperature Range	T(stg)	Absolute max	-55 ~ +125	°C
Frequency Stability vs. Temperature vs. Supply Voltage vs. Load vs. Aging Max	$\Delta f/fo(Ta)$ $\Delta f/f_{V}$ $\Delta f/f_{L}$ $\Delta f/fo(year)$	Reference to +25°C, over Temperature Range Vcc ± 5% Load ±10% Per Year at +25°C ± 2°C	±2.5 ±0.2 ±0.2 ±1.0	ppm ppm ppm ppm
Initial Frequency Calibration, max	f _C	Measured at 25°C, before shipment	±1.0	ppm
Reflow Shift, max	$\Delta f/f_r$	2 consecutive reflows, after 24 hours relaxation	±1.0	ppm
Output Level, CMOS	Voh	"0" level, max	0.2 V _{CC}	V
	Vol	"1" Level, min	0.8 V _{CC}	V
Load	L		15	pF
Rise and Fall Time, max	t _r /t _f	10%V _{CC} to 90% V _{CC}	5	ns
Start-up time, max	t _s	$V_{OUT} \ge 90\% V_{P-P}$	10	ms
Symmetry	-		45 ~ 55	%
Phase Noise	£ (∆f)	@10 kHz	-145	dBc/Hz

MECHANICAL SPECIFICATION

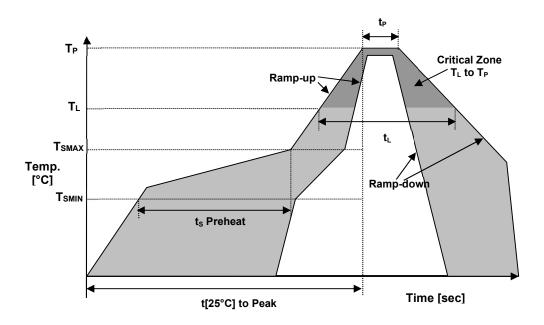


TCXO

RTXE-124ED333-C-50.000-TR

Page 2 of 3

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	TL	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	
REACH	Compliant	
RoHS	Compliant	
TERMINATION FINISH	Au	





TCXO

RTXE-124ED333-C-50.000-TR

Page 3 of 3

MARKING

Rx50.00 •ED33yw

x – Internal Production ID code

y – Year code

w - Week code

YEAR CODE			
Year	Code		
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	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	ı	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	I			
18	r	36	J			

APPROVALS

RALTRON

Created by, date: AR, June 01, 2021

Eng. approval, date: CP, June 01, 2021

Revision: A Initial Release
B, Updated frequency 12/15/22 KJ

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 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 only for reference purposes only and is subject to change, 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.

Copyright © 2016, Raltron Electronics / RAMI Technology USA, LLC. All rights reserved. No part of this document may be reproduced in any form without the prior written permission of Raltron Electronics / RAMI Technology USA, LLC.