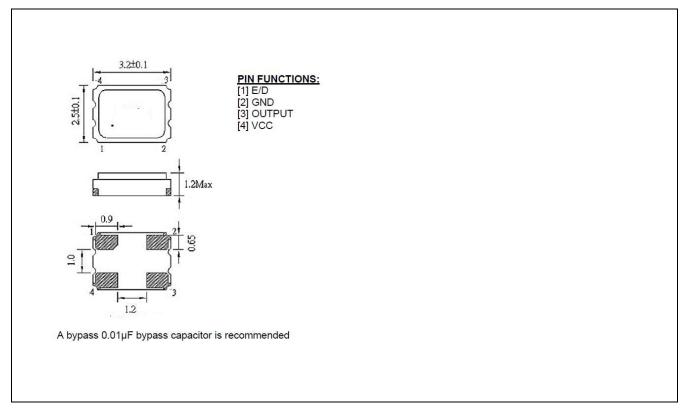
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RTXE-104ED333-C-50.000-TR

■ ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Ta=25°C	50.000	MHz
Supply Voltage	V _{CC}		3.3	VDC
Supply Current, max	Is	Ta=25°C	7	mA
Operating Temperature Range	Та		-40 ~ +85	°C
Storage Temperature Range	T(stg)	Absolute max	-40 ~ +90	°C
Frequency Stability vs. Temperature vs. Supply Voltage vs. Load vs. Aging Max	$\Delta f/f_L$	Reference to +25°C, over Temperature Range Vcc ± 5% V (Inside 2.375 ~ 3.63 V) Load ±10% Per Year at +25°C ± 2°C	±2.5 ±0.3 ±0.2 ±1.0	ppm ppm ppm ppm
Initial Frequency Calibration, max	f _C	Measured at 25°C, before shipment	±1.0	mqq
Reflow Shift, max		2 consecutive reflows, after 2 hours relaxation	±1.0	ppm
0		"0" Level, max	0.1V _{CC}	V
Output Level, HCMOS		"1" Level, min	$0.9V_{CC}$	V
Symmetry		at ½ V _{CC} level	45 / 55	%
Enable Disable Function	V_{IH}	min	2.1	V
Enable Disable Function	V_{IL}	max	0.9	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	ts	V _{OUT} ≥ 90% V _{P-P}	10	ms
	£ (∆f)	Δf=1kHz	-135	dBc/Hz
Phase noise @ freq. offset, typical.	£ (\Delta f)	Δf=10kHz	-145	dBc/Hz
	£ (\Delta f)	Δf=100kHz	-150	dBc/Hz

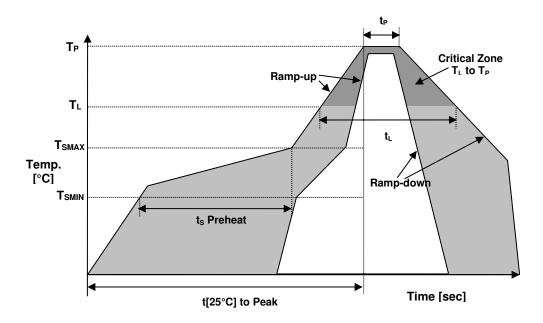
MECHANICAL SPECIFICATION





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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})	ts	60-180 sec.
Temperature	T _L	217°C
Peak Temperature	T_{P}	260°C max.
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. max.
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
RoHS	COMPLIANT
REACH-SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
TERMINATION FINISH	Au





RTXE-104ED333-C-50.000-TR

MARKING

Rx50.00 • ED3yw

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	М
4	d	22	V	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	T
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	0	33	G	51	Υ
16	р	34	Н	52	Z
17	q	35	I		
18	r	36	J		

APPROVAL

RALTRON		
DRAWN BY:	YL, May 26, 2021	
APPROVED BY:	CP, May 26, 2021	
REVISION:	A, Initial Release	

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