

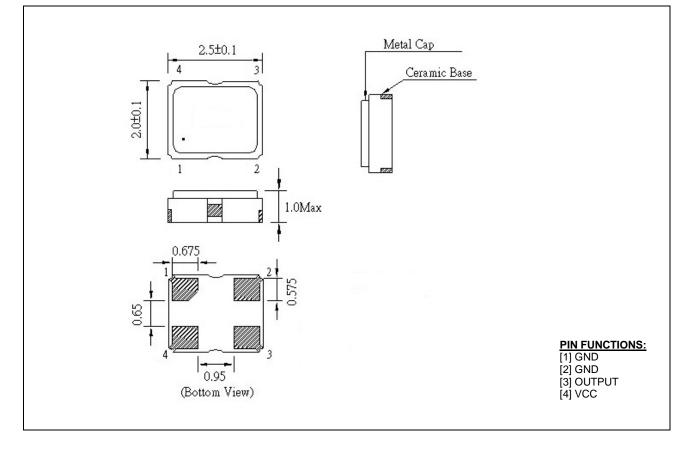
TCXO RTX-2520BHZC-S-32.000-TR

Page 1 of 3

ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Vcc ±5%	32.000	MHz
Supply Voltage, nom	V _{cc}		1.8 ~ 3.6	VDC
Supply Current, max	ls	Vcc ±5%	2.5	mA
Operating Temperature Range	Та		-20 ~ +70	°C
Storage Temperature Range	T(stg)	Absolute max	-40 ~ +85	°C
Frequency Stability vs. Temperature vs. Supply Voltage vs. Load vs. Aging max	∆f/fo(Ta) ∆f/f _∨ ∆f/f _L ∆f/fo(year)	Reference to +25°C over Temperature Range Vcc \pm 5% Load \pm 10% First Year at +25°C \pm 2°C	±1.0 ±0.2 ±0.2 ±1.0	ppm ppm ppm ppm
Initial Frequency Calibration, max		Measured at 25°C, before shipment	±1.0	ppm
Reflow Shift, max		2 consecutive reflows, after 2 hours relaxation	±1.0	
Start-up Time, max	Ts		2	ms
Output Level, Clipped Sine Wave, min		10kΩ // 10 pF ±10%	0.8	V _{P-P}
Phase Noise	£ (Δf)	@10 kHz	-147	dBc/Hz

MECHANICAL SPECIFICATION

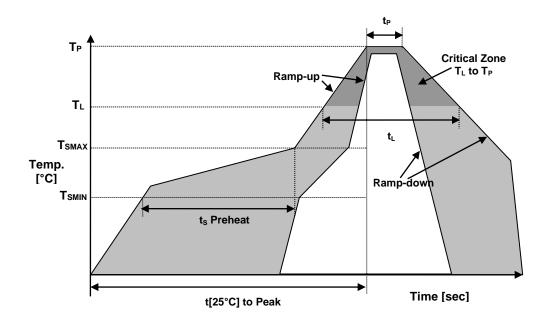




TCXO RTX-2520BHZC-S-32.000-TR

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	tL	60-150 sec.

• ENVIRONMENTAL

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





TCXO RTX-2520BHZC-S-32.000-TR

Page 3 of 3

MARKING

Rx32.00 •BHCyw

- x Internal Production ID code
- y Year code
- w-Week code

YEAR CODE		
Year	Code	
2015	5	
2016	6	
2017	7	
2018	8	
2019	9	
2020	0	
2021	1	
2022	2	
2023	3	
2024	4	
2025	5	

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	А	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	Х
15	0	33	G	51	Y
16	р	34	Н	52	Z
17	q	35	I		
18	r	36	J		

APPROVALS

DRAWN BY	XLiu, July 15, 2019
APPROVED BY	Jlvens, July 15, 2019
REVISION	A, Initial Release
	B, CP May 24, 2021
	Updated to the current spec levels

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