



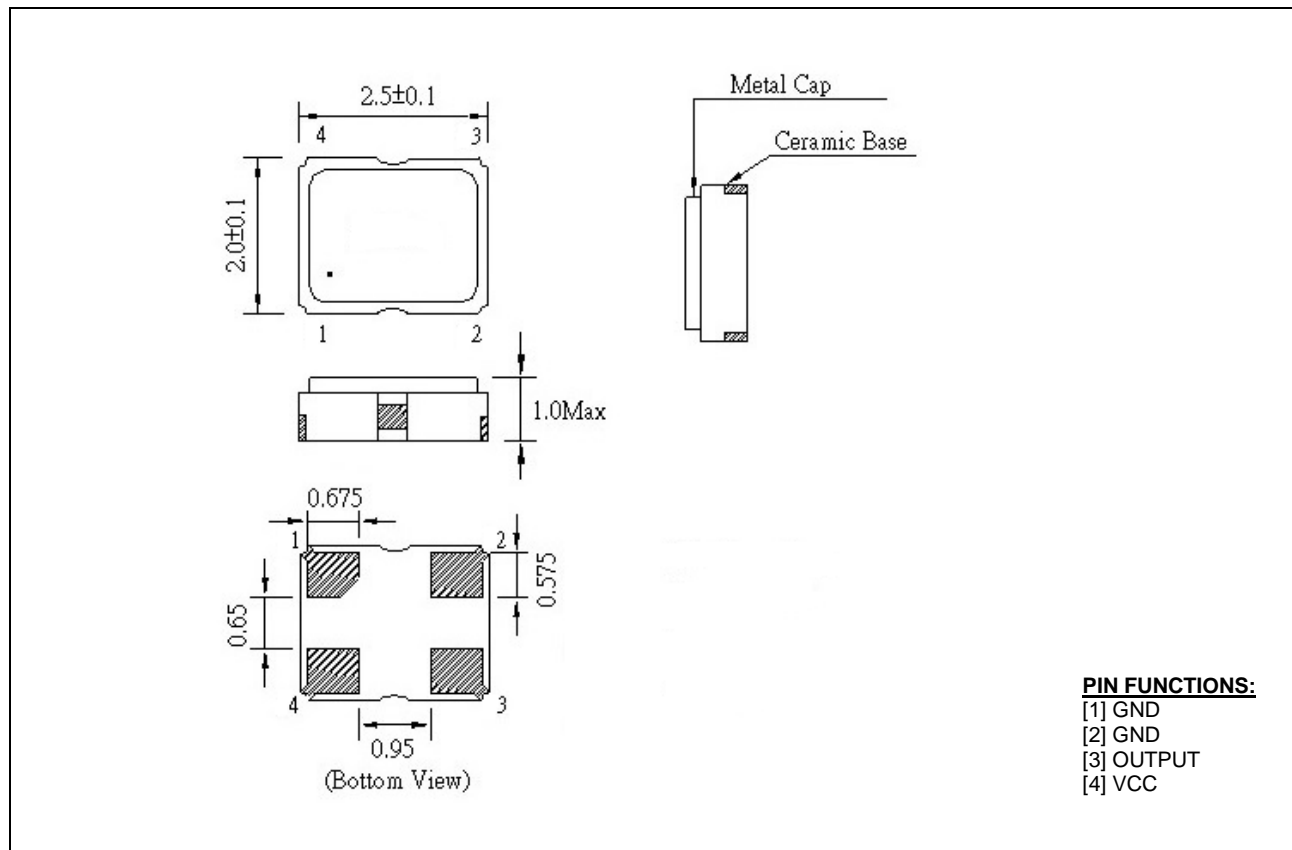
**THE DATASHEET OF  
RTX-2520BHZC-S-50.000-TR**



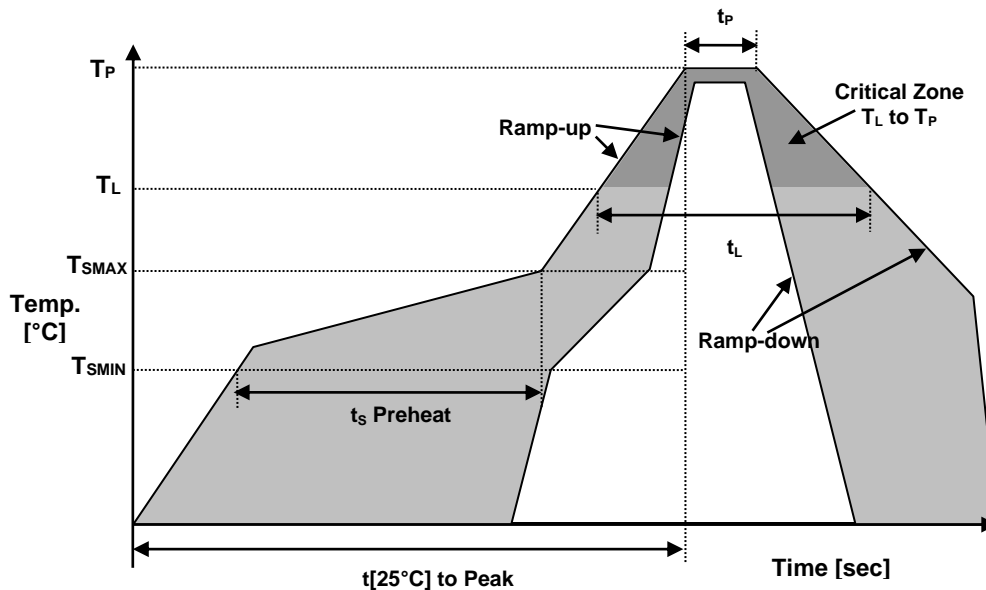
#### ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	$f_0$	$V_{CC} \pm 5\%$	50.000	MHz
Supply Voltage, nom	$V_{CC}$	---	1.8 ~ 3.6	VDC
Supply Current, max	$I_S$	$V_{CC} \pm 5\%$	2.5	mA
Operating Temperature Range	$T_a$		-20 ~ +70	°C
Storage Temperature Range	$T(stg)$	Absolute max	-40 ~ +85	°C
Frequency Stability				
vs. Temperature	$\Delta f/f_0(T_a)$	Reference to +25°C over Temperature Range	±1.0	ppm
vs. Supply Voltage	$\Delta f/f_V$	$V_{CC} \pm 5\%$	±0.2	ppm
vs. Load	$\Delta f/f_L$	Load ±10%	±0.2	ppm
vs. Aging max	$\Delta f/f_0(\text{year})$	First Year at +25°C ± 2°C	±1.0	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	$T_s$	---	2	ms
Output Level, Clipped Sine Wave, min		10kΩ // 10 pF ±10%	0.8	$V_{P-P}$
Phase Noise	$\mathcal{E}(\Delta f)$	@10 kHz	-147	dBc/Hz

#### MECHANICAL SPECIFICATION



#### REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	$T_{SMIN}$	150°C
Temperature Max Preheat	$T_{SMAX}$	200°C
Time ( $T_{SMIN}$ to $T_{SMAX}$ )	$t_s$	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 $t_{[25^\circ\text{C}]}$ to Peak Temperature	$t_{[25^\circ\text{C}] \text{ to Peak}}$	480 sec.
Time	$t_L$	60-150 sec.

#### ENVIRONMENTAL

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





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TCXO

RTX-2520BHZC-S-50.000-TR

Page 3 of 3

MARKING

Rx50.00

•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	a	19	s	37	K
2	b	20	t	38	L
3	c	21	u	39	M
4	d	22	v	40	N
5	e	23	w	41	O
6	f	24	x	42	P
7	g	25	y	43	Q
8	h	26	z	44	R
9	i	27	A	45	S
10	j	28	B	46	T
11	k	29	C	47	U
12	l	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	X
15	o	33	G	51	Y
16	p	34	H	52	Z
17	q	35	I		
18	r	36	J		

APPROVALS

DRAWN BY	CP, May 24, 2021
APPROVED BY	Jl, May 24, 2021
REVISION	A, Initial Release

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