

TCXO

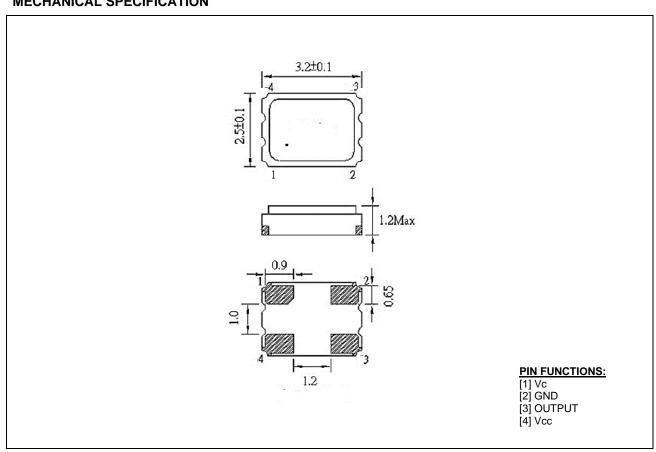
RTV-104BF3CP-S-24.000-TR

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■ ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Vcc ±5%	24.000	MHz
Supply Voltage, nom	V _{cc}		2.8 ~ 3.3	VDC
Supply Current, max	Is	Vcc ±5%	2.5	mA
Operating Temperature Range	Ta		-30 ~ +85	°C
Storage Temperature Range	T(stg)	Absolute max	-40 ~ + 85	°C
Frequency Stability vs. Temperature vs. Supply Voltage vs. Load vs. Aging max	Δf/fo(Ta) Δf/f _∨ Δf/f _L Δf/fo(year)	Reference to +25°C over Temperature Range Vcc ±5% Load ±10% First Year at +25°C ± 2°C	±1.0 ±0.2 ±0.2 ±1.0	ppm ppm ppm 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}
Voltage Control Range, min	Vc	$V_{cont} = 1.65 \pm 1.0 V$	5	ppm
Phase Noise	£ (∆f)	@1 kHz	-130	dBc/Hz

■ MECHANICAL SPECIFICATION

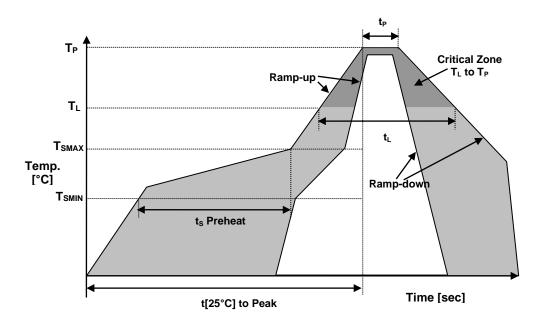




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REFLOW PROFILE



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
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





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MARKING

Rx24.00 •BFCyw

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	E	49	W
14	n	32	F	50	Χ
15	0	33	G	51	Υ
16	р	34	Н	52	Z
17	q	35	I		
18	r	36	J		

APPROVALS

DRAWN BY	AR, May 27, 2021
APPROVED BY	CP May 27, 2021
REVISION	A, Initial Release

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