

TCXO

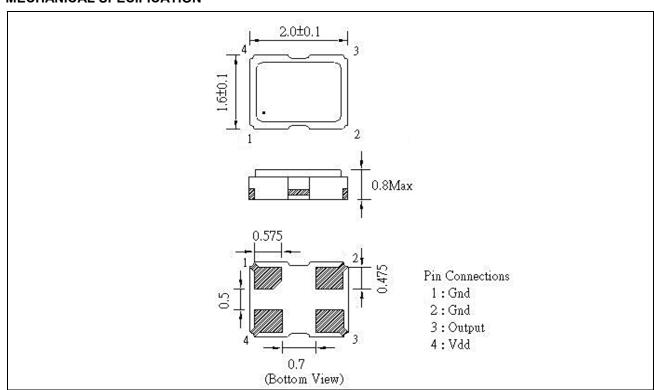
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ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Vcc ±5%	48.000	MHz
Supply Voltage, nom.	V _{cc}	Vcc ±5%	3.3	VDC
Supply Current, max	Is	Vcc ±5%	2.5	mA
Operating Temperature Range	Та		-30 ~ +85	°C
Storage Temperature Range	T(stg)	Absolute max	-40 ~ +85	°C
Frequency Stability vs. Temperature	∆f/fo(Ta)	Reference to +25°±2°C (-30 ~ +85°C)	±0.5	ppm
Frequency Stability				
vs. Supply Voltage	$\Delta f/f_{V}$	Vcc ±5%	±0.2	ppm
vs. Load	$\Delta f/f_L$	Load ±10%	±0.2	ppm
vs. Aging max	∆f/fo(year)	Per Year at +25°C ± 2°C	±1.0	ppm
Initial Frequency Calibration, max		Measured at 25°C, after 2 reflows	±2.0	ppm
Output Level, Clipped Sine Wave		10kΩ // 10 pF ±10%	0.8	V_{P-P}

■ MECHANICAL SPECIFICATION

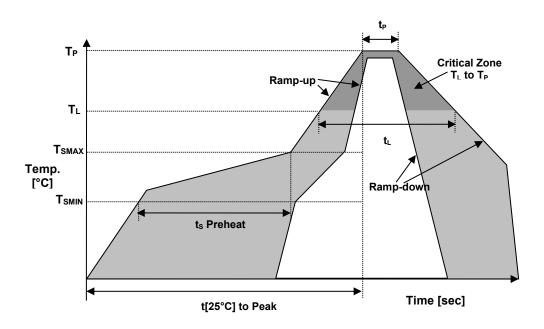




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REFLOW PROFILE



	Reflow profile	
Temperature Min Preheat	T _{SMIN}	150°C
Temperature Max Preheat	T _{SMAX}	200°C
Time (T _{SMIN} to T _{SMAX})	ts	60-120 sec.
Temperature	T∟	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	30 sec.
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	t,	60-150 sec.

ENVIRONMENTAL

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





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MARKING

Rx48.00 • AF3yw

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	

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	X
15	О	33	G	51	Y
16	р	34	Н	52	Z
17	q	35	ı		
18	r	36	J		

APPROVALS

RALTRON		
Created by, date:	AR, January 28, 2019	
Eng. approval, date: CP, January 28, 2019		
Revision: A		

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