

TCXO

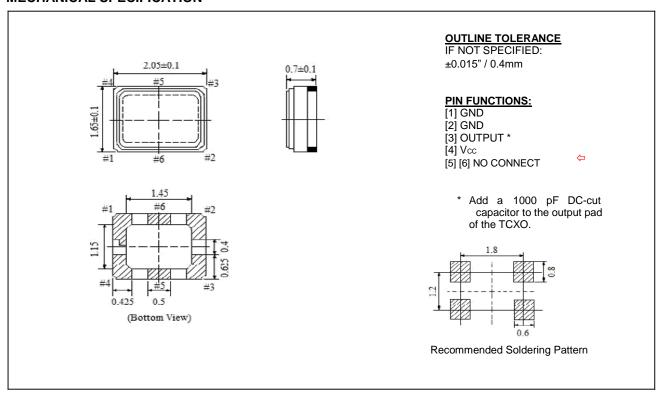
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ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Vcc ±5%	32.000	MHz
Supply Voltage, nom.	Vcc	Vcc ±10%	2.8	VDC
Supply Current, max	ls	Vcc ±5%	3.0	mA
Operating Temperature Range	Та		-40 ~ +85	С
Storage Temperature Range	T(stg)	Absolute max	-40 ~ +85	С
Frequency Stability vs. Temperature	f/fo/To\	Reference to +25°±2°C (-30 ~ +85°C)	±1.0	Ppm
	f/fo(Ta)	Reference to +25°±2°C (-40 ~ -30°C)	±2.0	ppm
Frequency Stability				
vs. Supply Voltage	f/f _V	Vcc ±5%	±0.2	ppm
vs. Load	f/f∟	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
Start Up Time			5	ms
Output Level, Clipped Sine Wave	•	10kΩ // 10 pF ±10%	0.8	V _{P-P}
Phase Noise	£ (f)	@100 kHz	-147	dBc/Hz

MECHANICAL SPECIFICATION



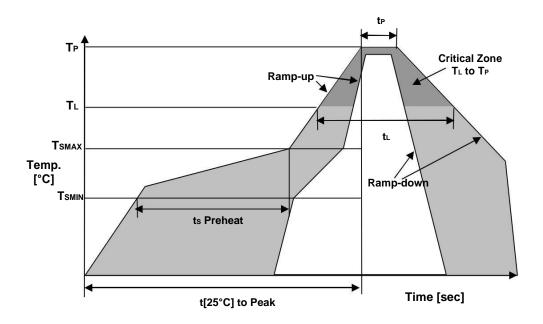
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REFLOW PROFILE



	Reflow profile	
Temperature Min Preheat	Тѕмім	150°C
Temperature Max Preheat	Tsmax	200°C
Time (Tsmin to Tsmax)	ts	60-180 sec.
Temperature	T∟	217°C
Peak Temperature	Tp	260°C
Ramp-up rate	Rup	3°C/sec max.
Ramp-down rate	Rdown	6°C/sec max.
Time within 5°C of Peak Temperature	t₽	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



RA LT RO N E LE CT RO NI CS $^{\circ}$ 10400 N . W . 33 $^{\circ}$ d S t r eet $^{\circ}$ Mi am i , Fl ori da 33172 $^{\circ}$ U . S . A .



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MARKING

Rx32.00 •B32yw

x – Internal Production ID code

y - Year code

w - Week code

YEAR CODE		
Year	Code	
2011	1	
2012	2	
2013	3	
2014	4	
2015	5	
2016	6	
2017	7	
2018	8	
2019	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	M
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	T
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	0	33	G	51	Υ
16	р	34	Н	52	Z
17	q	35	ĺ		
18	r	36	J		

APPROVALS

RALTRON	
Created by, date:	JH, December 6, 2018
Eng. approval, date: CP, December 6, 2018	
Revision: A	

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