

TCXO

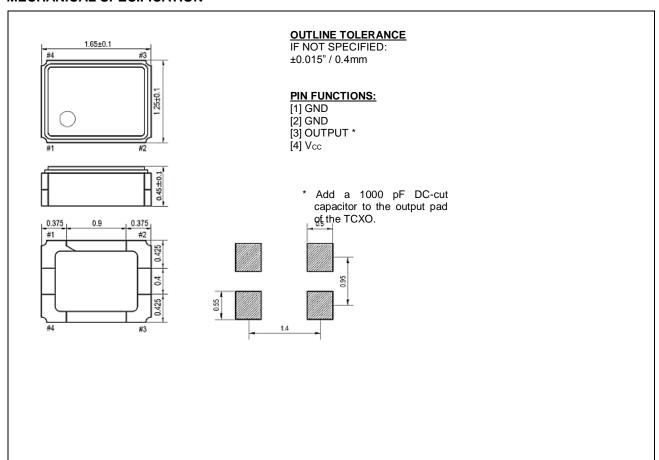
RTX-1612BD32-S-52.000-TR

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ELECTRICAL SPECIFICATION

PARAMETER		SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency		fo	Vcc ±5%	52.000	MHz
Supply Voltage, nom.		Vcc	Vcc ±10%	2.8	VDC
Supply Current, max		Is	Vcc ±5%	2.0	mA
Operating Temperature Range		Та		-40 ~ +85	°C
Storage Temperature Range		T(stg)	Absolute max	-40 ~ +85	°C
Frequency Stability, max	vs. Temperature	∆f/f _T	Reference to +25° (-40 ~ +85°C)	±1.0	ppm
	vs. Supply Voltage	∆f/f∨	@2.8VDC±10%	±0.2	ppm
	vs. Load	∆f/f∟	@10kΩ±10%, 10pF±10%	±0.2	ppm
	vs. Aging	f/fo(year	@ +25°±2°C	±1.0	ppm
	Vs. Reflow		1h after reflow	±1.0	ppm
Initial Frequence	Initial Frequency Calibration, max		Measured at 25°C±2°C	±1.5	ppm
Start Up Time, max				2	ms
Output Level, Clipped Sine Wave			10kΩ // 10 pF ±10%	0.8	V_{P-P}
Phase Noise		£ (∆f)	@1 kHz offset	-135	dBc/Hz
Harmonics, max				-5.0	dBc

MECHANICAL SPECIFICATION

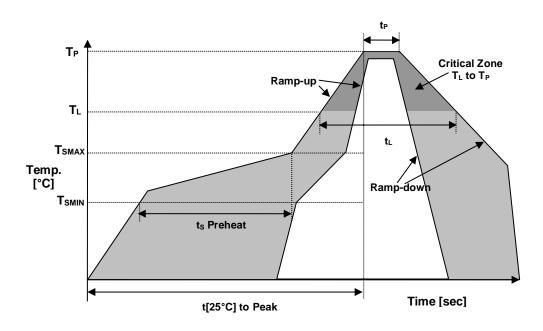




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REFLOW PROFILE

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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∟	217°C	
Peak Temperature	T _P	260°C	
Ramp-up rate	Rup	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	tı	60-150 sec	

ENVIRONMENTAL

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





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MARKING

Rx52.00 •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	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	Α	45	S
10	j	28	В	46	Т
11	k	29	С	47	U
12	1	30	D	48	V
13	m	31	Е	49	W
14	n	32	F	50	Х
15	0	33	G	51	Υ
16	р	34	Н	52	Z
17	q	35	1		
18	r	36	,J		

APPROVALS

RALTRON		
Created by, date:	CP, November 27, 2017	
Eng. approval, date: JI, November 27, 2017		
Revision: A, Initial Release		

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