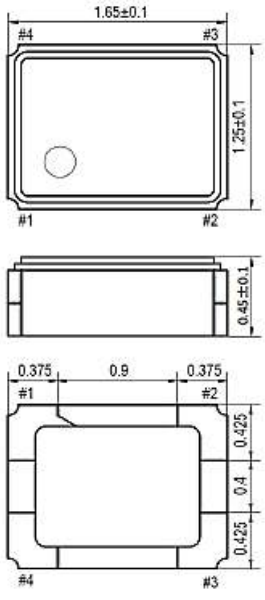
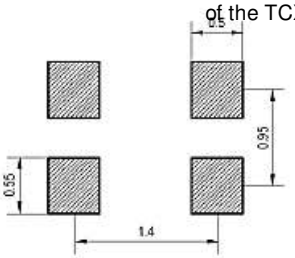
ELECTRICAL SPECIFICATION

PARAMETER		SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency		fo	Vcc ±5%	52.000	MHz
Supply Voltage, nom.		V_{CC}	Vcc ±10%	2.8	VDC
Supply Current, max		I_S	Vcc ±5%	2.0	mA
Operating Temperature Range		Ta		-40 ~ +85	°C
Storage Temperature Range		T(stg)	Absolute max	-40 ~ +85	°C
Frequency Stability, max	vs. Temperature	$\Delta f/f_T$	Reference to +25° (-40 ~ +85°C)	±1.0	ppm
	vs. Supply Voltage	$\Delta f/f_V$	@2.8VDC±10%	±0.2	ppm
	vs. Load	$\Delta f/f_L$	@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 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		£ (Δf)	@1 kHz offset	-135	dBc/Hz
Harmonics, max				-5.0	dBc

MECHANICAL SPECIFICATION



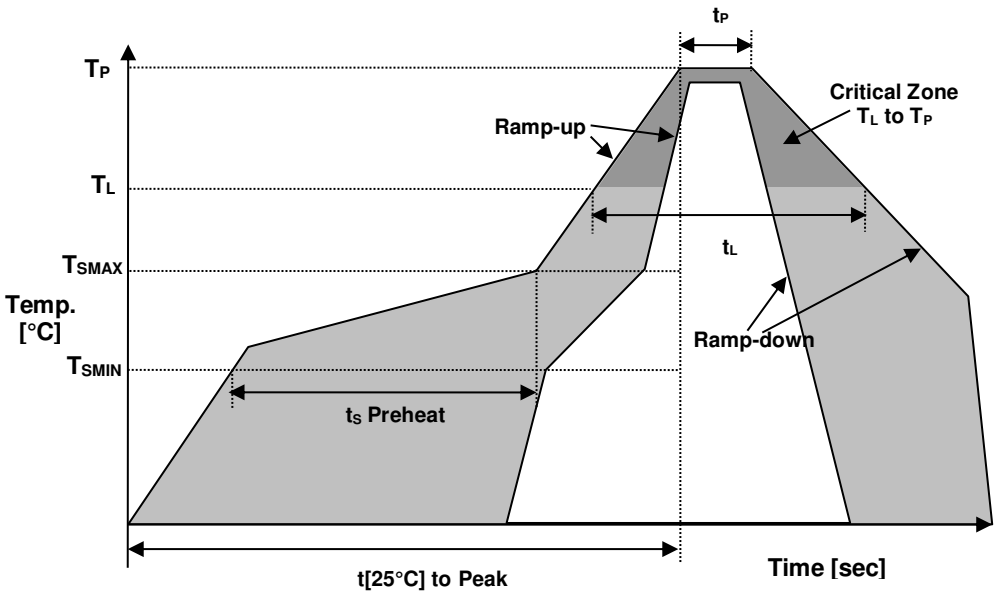


OUTLINE TOLERANCE
IF NOT SPECIFIED:
±0.015" / 0.4mm

PIN FUNCTIONS:
[1] GND
[2] GND
[3] OUTPUT *
[4] V_{CC}

* Add a 1000 pF DC-cut capacitor to the output pad of the TCXO.

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°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

• 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	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

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