

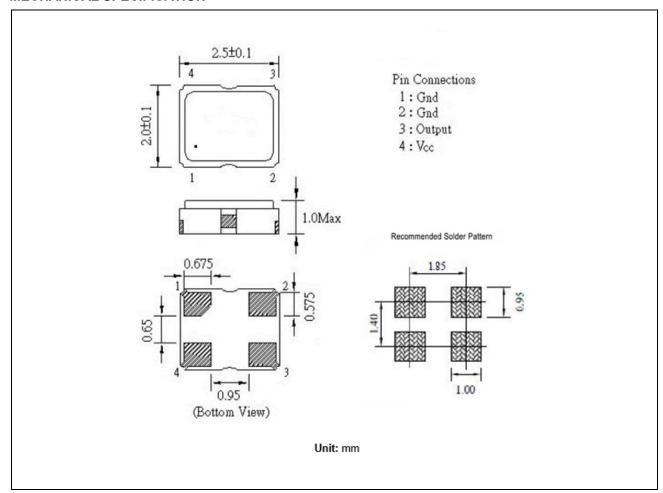
# RTX-2520BD32-S-52.000-TR-NS1

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### ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Vcc ±5%	52.000	MHz
Supply Voltage, nom.	V <sub>cc</sub>	Vcc ±10%	2.8	VDC
Supply Current, max	Is	Vcc ±5%	3.0	mA
Operating Temperature Range	Та		-40 ~ +85	°C
Storage Temperature Range	T(stg)	Absolute max	-40 ~ +85	°C
Frequency Stability vs. Temperature	Δf/fo(Ta)	Reference to +25°±2°C (-30 ~ +85°C)	±1.0	Ppm
Frieducticy Stability vs. Temperature		Reference to +25°±2°C (-40 ~ -30°C)	±2.0	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
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

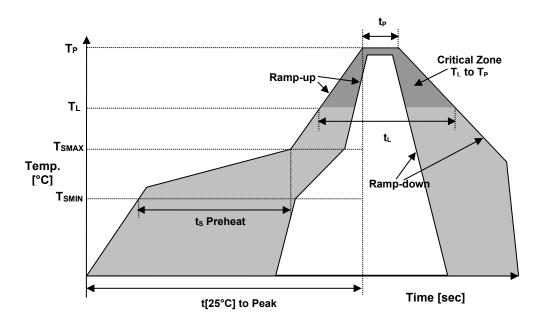




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### REFLOW PROFILE



	Reflow profile	
Temperature Min Preheat	T <sub>SMIN</sub>	150°C
Temperature Max Preheat	T <sub>SMAX</sub>	200°C
Time (T <sub>SMIN</sub> to T <sub>SMAX</sub> )	t <sub>s</sub>	60-180 sec.
Temperature	$T_L$	217°C
Peak Temperature	$T_{P}$	260°C
Ramp-up rate	R <sub>UP</sub>	3°C/sec max.
Ramp-down rate	R <sub>DOWN</sub>	6°C/sec max.
Time within 5°C of Peak Temperature	t <sub>P</sub>	10 sec.
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	t <sub>L</sub>	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	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, July 09, 2019
Eng. approval, date: CP, July 09, 2019
Revision: A Initial Release

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