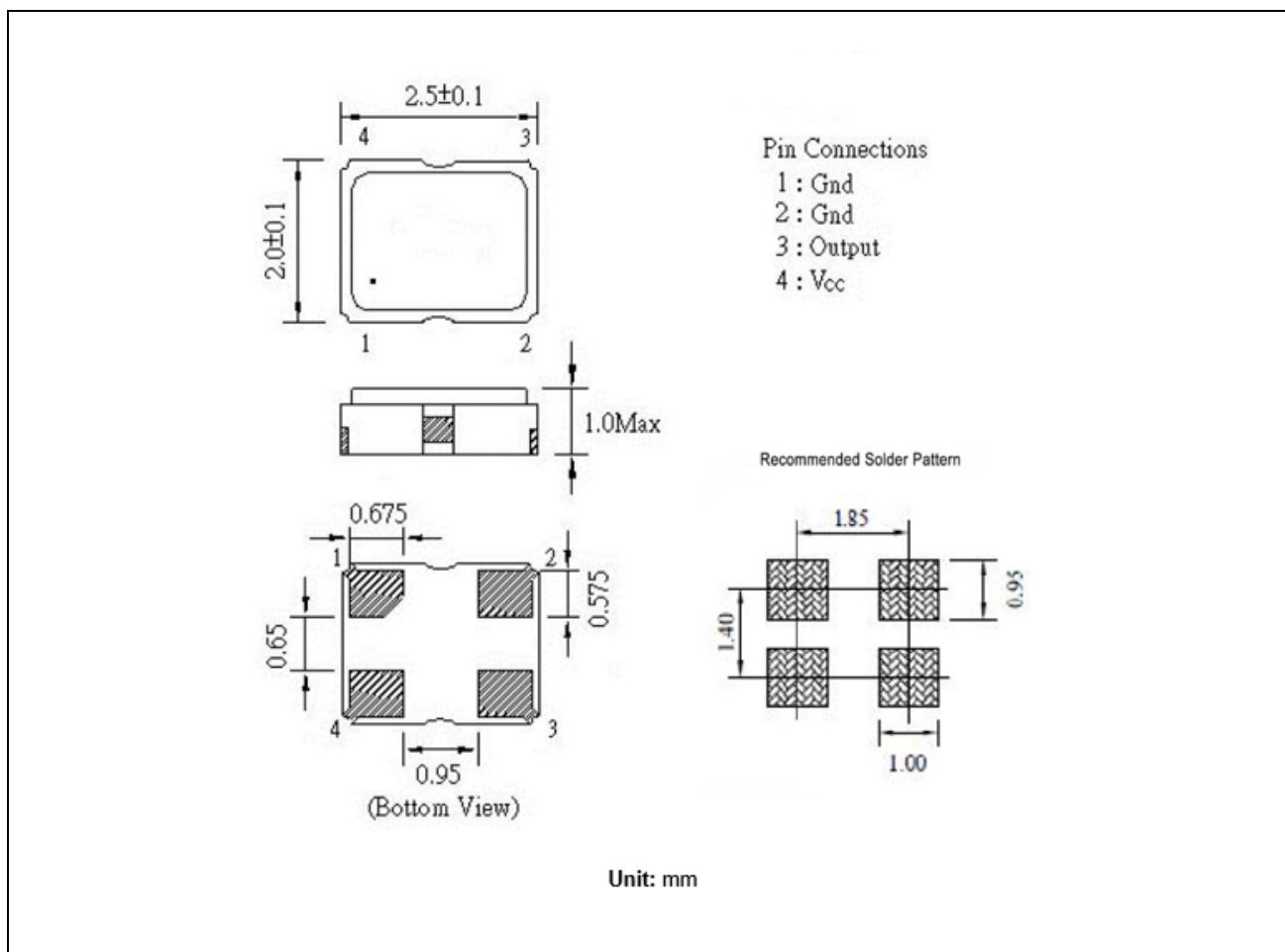


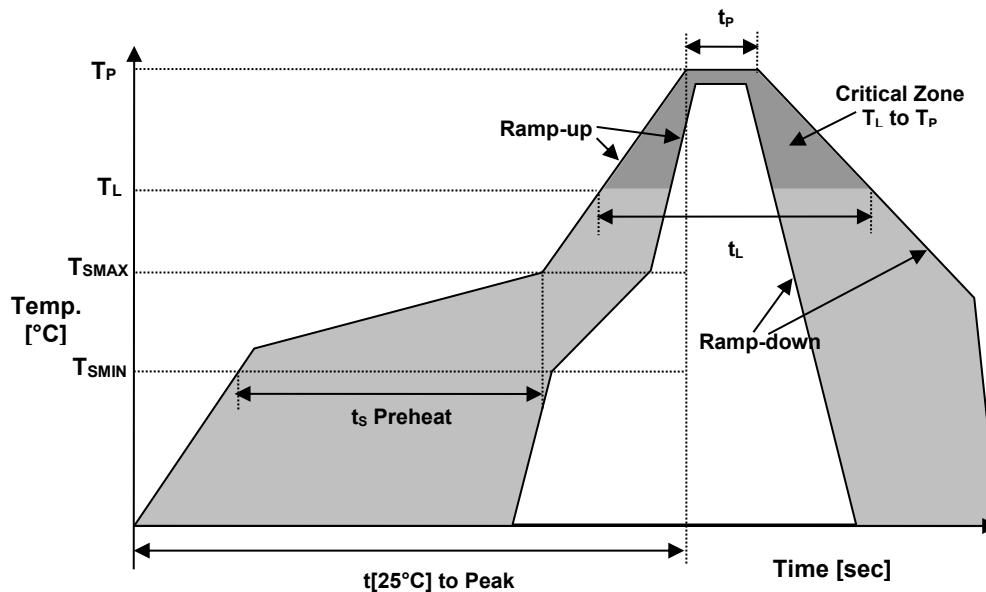
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	f_0	$V_{CC} \pm 5\%$	52.000	MHz
Supply Voltage, nom.	V_{CC}	$V_{CC} \pm 10\%$	2.8	VDC
Supply Current, max	I_s	$V_{CC} \pm 5\%$	3.0	mA
Operating Temperature Range	T_a		-40 ~ +85	°C
Storage Temperature Range	$T(stg)$	Absolute max	-40 ~ +85	°C
Frequency Stability vs. Temperature	$\Delta f/f_0(T_a)$	Reference to +25±2°C (-30 ~ +85°C)	±1.0	Ppm
		Reference to +25±2°C (-40 ~ -30°C)	±2.0	ppm
Frequency Stability vs. Supply Voltage vs. Load vs. Aging max	$\Delta f/f_0$ $\Delta f/f_L$ $\Delta f/f_0(\text{year})$	$V_{CC} \pm 5\%$	±0.2	ppm
		Load ±10%	±0.2	ppm
		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	$\mathcal{L}(\Delta f)$	@100 kHz	-147	dBc/Hz

MECHANICAL SPECIFICATION



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





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TCXO

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MARKING

Rx52.00

•B32yw

x – Internal Production ID code
y – Year code
w – Week code

YEAR CODE table with columns Year and Code, mapping years 2011-2019 to codes 1-9.

ALPHA WEEK CODE TABLE with columns Week and Code, mapping weeks 1-52 to letters a-Z.

APPROVALS

Approval table with columns for RALTRON, Created by, date, Eng. approval, date, and Revision.

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