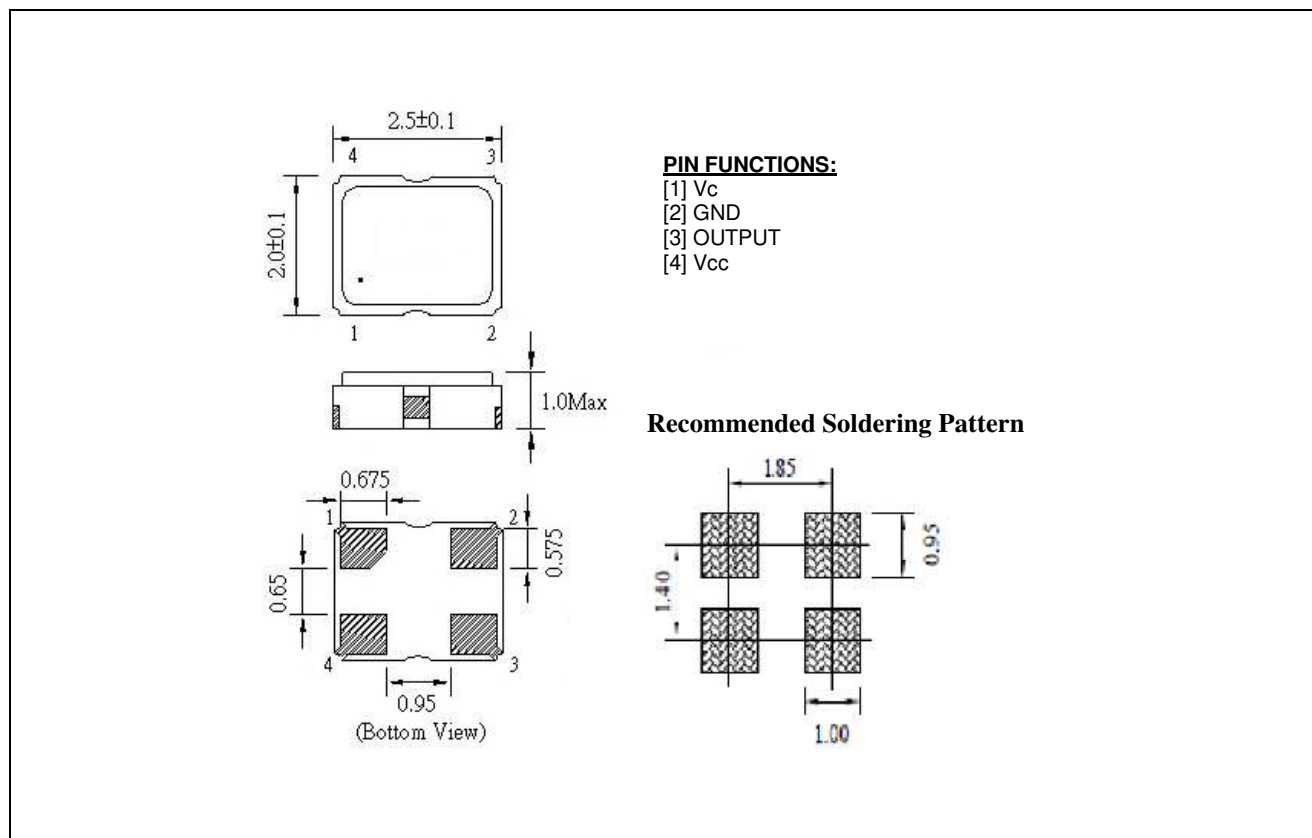


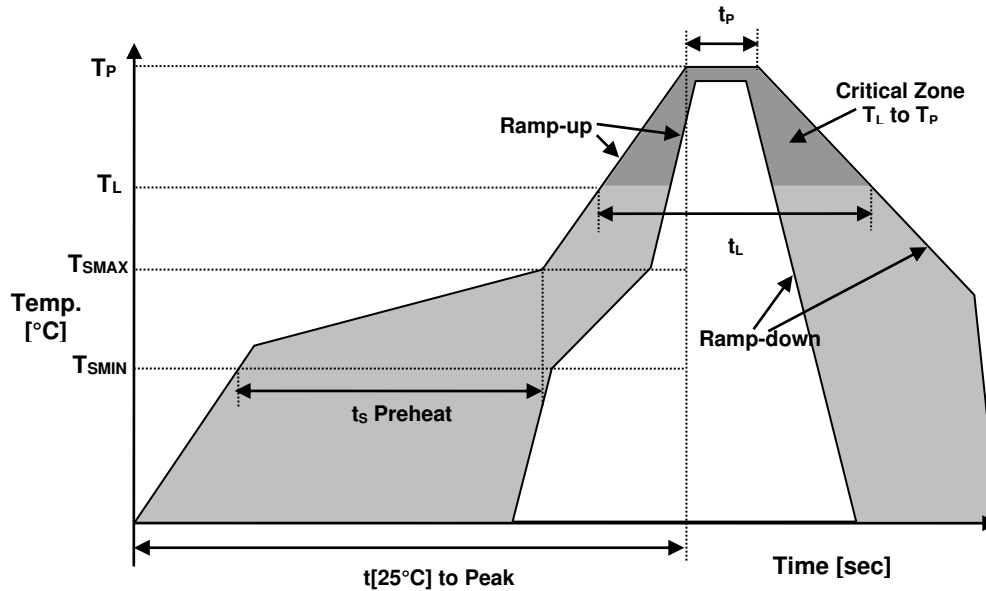
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	f_0	$V_{CC} \pm 5\%$	19.200	MHz
Supply Voltage, nom	V_{CC}	---	3.0	VDC
Supply Current, max	I_S	$V_{CC} \pm 5\%$	2.0	mA
Operating Temperature Range	T_a		-30 ~ +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°C over Temperature Range	±1.0	ppm
vs. Supply Voltage	$\Delta f/f_V$	$V_{CC} \pm 5\%$	±0.2	ppm
vs. Load	$\Delta f/f_L$	Load ±10%	±0.2	ppm
vs. Aging max	$\Delta f/f_0(\text{year})$	First Year at +25°C ± 2°C	±1.0	ppm
Initial Frequency Calibration, max	f_c	Measured at 25°C, after 2 reflows	±1.0	ppm
Reflow Shift, max	$\Delta f/fr$	2 consecutive reflows, after 2 hours relaxation	±1.0	ppm
Start-up Time, max	T_s	---	5	ms
Output Level, Clipped Sine Wave, min		10kΩ // 10 pF ±10%	0.8	V_{P-P}
Voltage Control Range, min	V_c	$V_{cont} = 1.4 \pm 1$	5	ppm
Phase Noise	$\mathcal{L}(\Delta f)$	@1 kHz	-130	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 $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ 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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Page 3 of 3

MARKING

Rx19.20

•BF3yw

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

Table with 2 columns: Year, Code. Rows for years 2018-2029 with corresponding codes 8-9.

Table with 6 columns: Week, Code, Week, Code, Week, Code. Rows for weeks 1-36 with corresponding codes a-J.

APPROVALS

Table with 2 columns: Field, Value. Fields: DRAWN BY, APPROVED BY, REVISION.

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