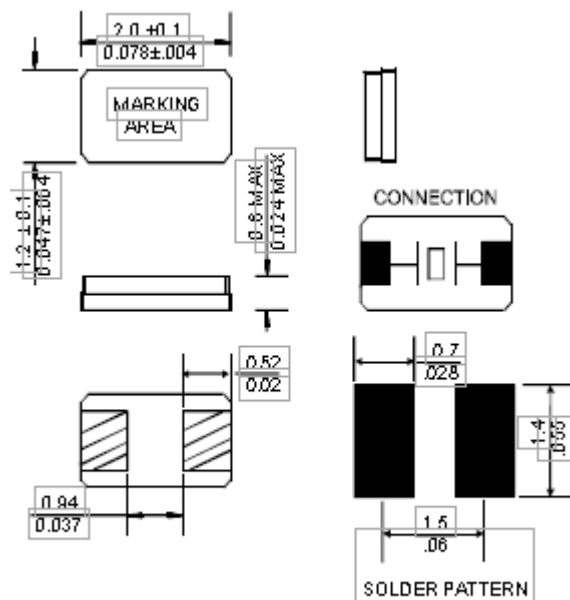


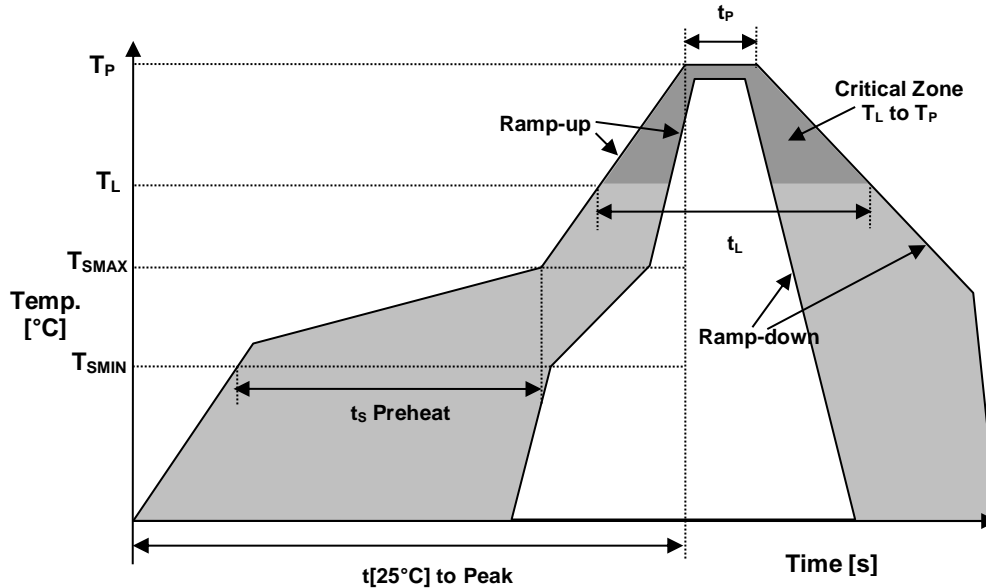
## ELECTRICAL SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	32.768 kHz
FREQUENCY TOLERANCE AT 25°C	±20 ppm max
TURNOVER TEMPERATURE	25°C ± 5°C
PARABOLIC CURVATURE CONSTANT	-0.04 ppm/°C <sup>2</sup>
LOAD CAPACITANCE	9 pF
EQUIVALENT SERIES RESISTANCE	90 kΩ max
DRIVE LEVEL	0.1 μW typ
SHUNT CAPACITANCE (C <sub>0</sub> )	2 pF max
MOTIONAL CAPACITANCE (C <sub>1</sub> )	5.8 fF typ
AGING (FIRST YEAR)	±3 ppm per year max
INSULATION RESISTANCE	500 MΩ min
OPERATING TEMPERATURE RANGE	-40°C to +85°C
STORAGE TEMPERATURE RANGE	-55°C to +125°C
SHOCK RESISTANCE	±5 ppm max drop test onto a hard wood surface

## 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/s max.
Ramp-down rate	$R_{DOWN}$	6°C/s 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
RoH	5/6 Compliant, Exemption 7a
REACH SVHC	Compliant
HALOGEN-FREE	Compliant
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Sn



● APPROVAL

DRAWN BY:	LP, August 09, 2016
APPROVED BY:	CP, August 09, 2016
REVISION:	A, Initial Release
	B, Updated to current spec levels KJ 10/12/18

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