

## ● SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	32.768 kHz
MODE OF OSCILLATION	Fundamental
FREQUENCY TOLERANCE AT 25°C	±20 ppm max
FREQUENCY STABILITY OVER TEMPERATURE	-0.03 ±0.01 ppm/°C <sup>2</sup>
AGING	±3 ppm pear year max
LOAD CAPACITANCE	9 pF
EQUIVALENT SERIES RESISTANCE	90 kΩ max
SHUNT CAPACITANCE	1.5 pF max
DRIVE LEVEL	0.5 μW typ
OPERATING TEMPERATURE RANGE	-40°C to +85°C
STORAGE TEMPERATURE RANGE	-55°C to +125°C
SHOCK RESISTANCE	±5 ppm max 75 cm drop test in 3 axes onto a hard wood surface
REFLOW CONDITIONS	260°C ±5°C for 10s max

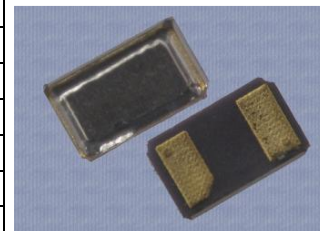
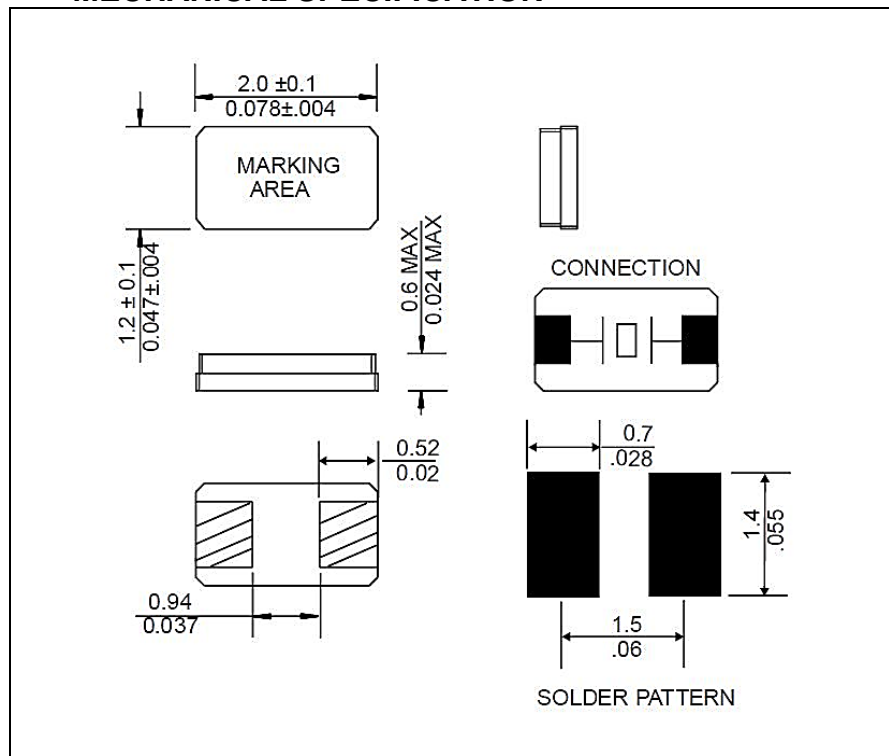
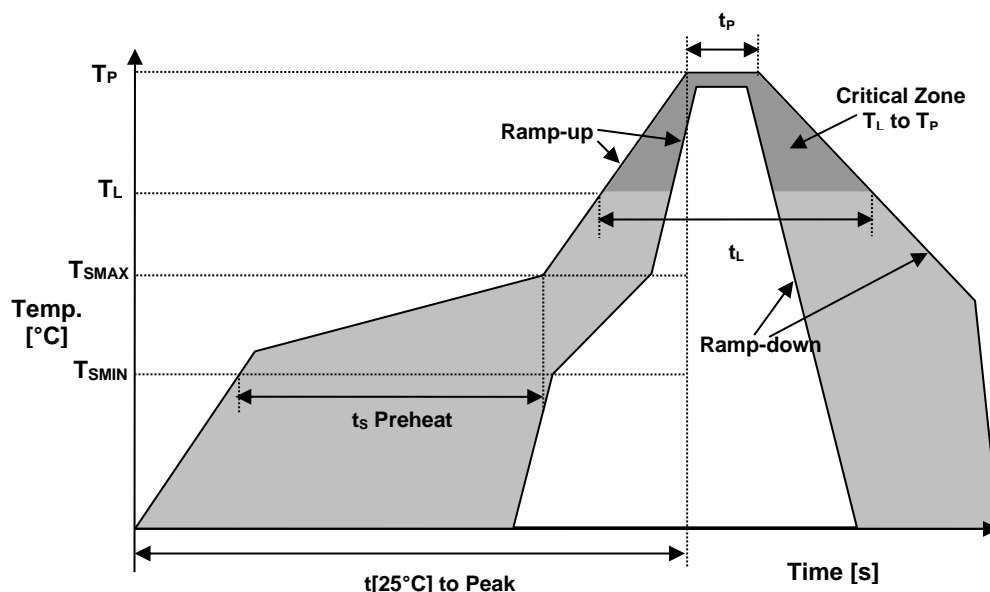


Photo is not actual part

## ■ 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 s
Time $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 s
Time	$t_L$	60-150 s

## ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant
ESD CLASSIFICATION LEVEL	N/A



## ■ MARKING

Marking will be a single line of text from 4 to 8 digits.

Marking characters are per production line and will be specific at the shipment level

## ■ 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 C, Updated to current spec levels XL 3/2/20 D, Updated to current spec levels AR 11/4/21

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