

# SMD kHz Crystals 3.2x1.5x0.75mm 3215 Series



## Features

- . 2 pads surface mount package.
- . Application for variety of automotive products reference clocks.
- . High reliable environmental performance.



## Electrical Specifications

Item / Type	
Norminal Frequency	32.768 kHz
Frequency Tolerance(at 25 °C)	± 20 ppm
Operation Temperature Range	- 40 ~ + 85 °C
Shunt Capacitance (C0)	1.0pF typical
Motional Capacitance (C1)	3.4fF typical
Insulation Resistance (IR)	500 MΩ Min.
Drive Level (DL)	1.0 μW Max.
Load Capacitance( CL)	6PF ,7Pf ,9Pf, 12.5 pF ,
Turnover Temperature (Ti)	25 °C ± 5 °C
Parabolic Coefficient (B)	$( - 0.03 \pm 0.01 ) * 10^{-6} / ^\circ\text{C}^2$
Aging (at 25 °C)	± 3 ppm at <i>F</i> i rst year
Storage Temperature Range	-55 ~ +125 °C

## Equivalent Series Resistance(ESR)

3215

70 KΩ Max

## Dimensions

