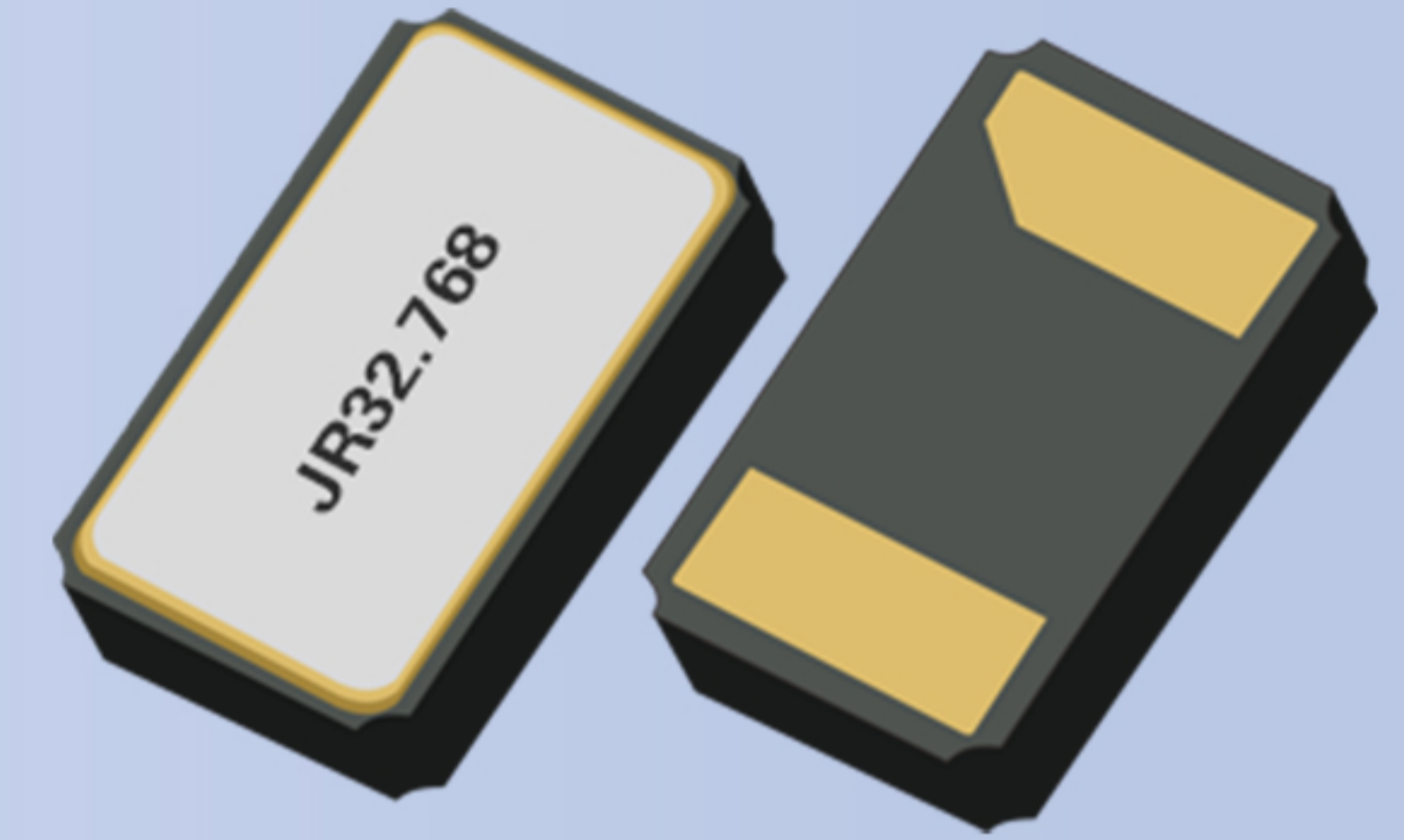


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# SMD 32.768 kHz Crystals 1.6 x 1.0 x 0.5 (max) mm

## Features

- 2 pads surface mount package.
- Application for NB, Smart Phone, variety of compact portable consumer products reference clocks.
- High reliable environmental performance.
- RoHS compliant /Pb Free.



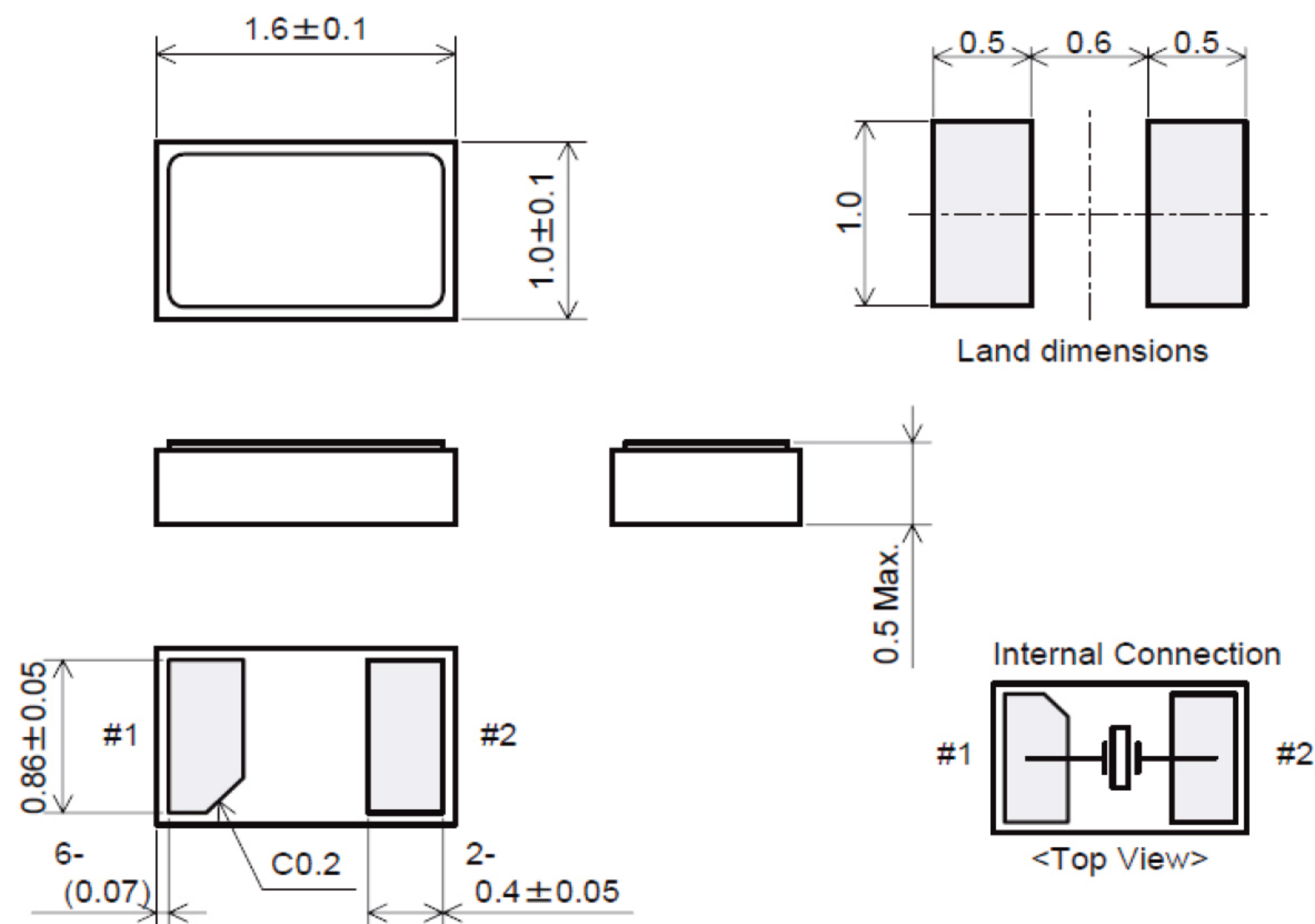
## Electrical Specifications

Item / Type	1610
Norminal Frequency	32.768 kHz
Frequency Tolerance(at 25 °C)	± 20 ppm , or specify
Operation Temperature Range	- 40 ~ + 85 °C
Shunt Capacitance (C0)	1.3 pF typical
Motional Capacitance (C1)	6.4 fF typical
Insulation Resistance (IR)	500 MΩ Min.
Drive Level (DL)	0.5 μW Max.
Load Capacitance( CL)	12.5 pF , other spec.
Turnover Temperature (Ti)	25 °C ± 5 °C
Parabolic Coefficient (B)	(- 0.03 ± 0.01) * 10 <sup>-6</sup> / °C <sup>2</sup>
Aging (at 25 °C)	± 3 ppm at first year
Storage Temperature Range	-55 ~ +125 °C

## Equivalent Series Resistance(ESR)

1610  
 90 KΩ Max

## Dimensions



Units: mm