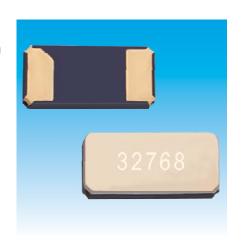




## **Features**

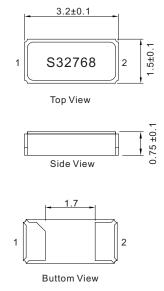
- 3215size ultra miniature and lightweight with a low profile of 0.75mm.
- High precision and reliability
- High reliable environmental performance
- Automatic mounting and reflow soldering
- Application for Smart phone, Wave clock, Mobile communications, automotive, etc.
- RoHS Compliant /Pb Free

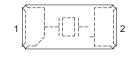


Standard Specification	
Item /Type	7L (7L Series 32.768kHz SMD Crystal Units)
Frequency Range	32.768 kHz
Frequency Tolerance	±20ppm, or specify
Load Capacitance	6pF, 9pF, 12.5pF, or specify
Operating Temperature Range	-40~+85°C, or specify
Storage Temperature Range	-55~+125°C
Drive Level	1.0μW Max.
Turnover Temperature	±25°C±5°C
Parabolic Coefficient	(-0.03±0.01)×10 <sup>-6</sup> /°C <sup>2</sup>
Shunt Capacitance	1.0pF Typ.
Aging (at 25°C)	±3ppm at first year
Packing Unit	3000pcs./Reel

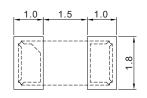
Equivalent Series Resistance		
Fundamental		
32.768 kHz	70KΩ Max.	

## Dimensions [mm]





Top View Crystal Connection



Top View Suggested Layout