

## Research for Frequency Products

**Crystal Unit Low Profile**  
 10.7 x 4.7 x 3.2mm Thru-Hole  
 3.2768MHz ~ 100.000MHz

### Description

This is AT-cut Stripe crystal unit in low profile thru-hole hermetical seal metal package. This crystal is suitable for Universal applications in CPU clock, iDTV, DBS, WLAN, Automotive.... Coverage wide frequency between 3.2768MHz ~ 100MHz. Parts are supplied 1000pcs in bulk pack as standard. Ammo Pack and Taped & Reel optional.

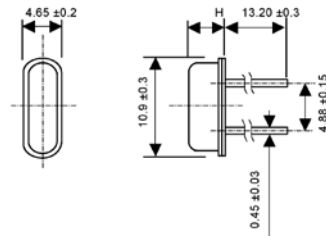


### Features

Thin package height 3.2mm ±0.3  
 Tight Tolerance ±5ppm at room temp. available  
 Tight Stability ±2.5ppm available  
 Lower crystal impedance  
 Low cost for manual PCBA or auto-insertion

### RoHS Compliant

### Outlines and Dimensions



H : 3.2mm ±0.3.

### Standard Parameters

Parameter	Specifications
Frequency Range	3.2768MHz ~ 100.00MHz
Vibration Mode	Fundamental/3 <sup>rd</sup> Overtone
Frequency Tolerance @25°C	±30ppm (±5ppm option)
Frequency Stability vs Temp Range	±50ppm (±2.5ppm option)
Operating Temp. Range	-10~+60 °C or -20~+70 °C
Load Capacitance (pF)	8 ~ 32pF or Series
Drive Level	100µW Max.
Shunt Capacitance	7.0pF Max.
Insulation Resistance	500MΩ Min. @ 100VDC
Aging per year	±5ppm
Storage Temp. Range	-40 ~ 125 °C

### Equivalent Series of Resistance

Frequency (MHz)	ESR ( Max)
3.2768	200
3.5795 ~3.999	150
4.000 ~ 4.999	120
5.000 ~ 5.999	100
6.000 ~ 9.999	80
10.000 ~ 11.999	60
12.000 ~ 13.999	50
14,000 ~ 29.999	40
30.000 ~ 38.000	30
38.001 ~ 100.000 3 <sup>rd</sup> Overtone	80



Subject to change without notice



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