

Research for Frequency Products

Description

This is AT-cut Stripe crystal unit in low profile SMD 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 12mm embossed tape as standard.

Features

Tight Tolerance $\pm 10\text{ppm}$ at room temp. available
Tight Stability $\pm 2.5\text{ppm}$ available
Low crystal impedance
Thin package height options 3.0mm
Full SMD PCB Assembly

RoHS Complaint

Standard Parameters

Parameter	Specifications
Frequency Range	3.2768MHz ~ 100.00MHz
Vibration Mode	Fundamental/3 rd Overtone
Frequency Tolerance @25°C	$\pm 30\text{ppm}$ ($\pm 10\text{ppm}$ option)
Frequency Stability vs Temp Range	$\pm 50\text{ppm}$ ($\pm 2.5\text{ppm}$ 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	$\pm 5\text{ppm}$
Storage Temp. Range	-40 ~ 125 °C

Equivalent Series of Resistance

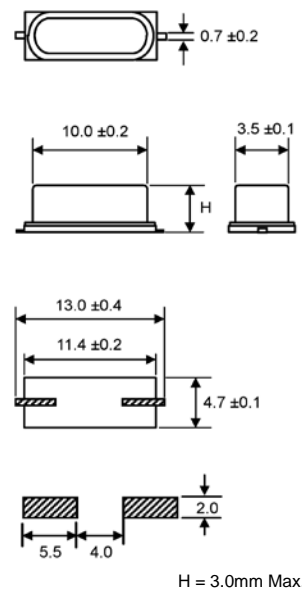
Frequency (MHz)	ESR (Max)
3.2768	200
3.5795 ~ 3.999	150
4.000 ~ 4.999	120
5.000 ~ 5.999	100
6.000 ~ 9.999	80
10.000 ~ 11.999	60
12.000 ~ 13.999	50
14.000 ~ 29.999	40
30.000 ~ 38.000	30
38.001 ~ 100.000 3 rd Overtone	80

Crystal Unit SMD Slim Low Profile

Height 3.0mm
13.4 x 4.7x3.0mm
3.2768MHz ~ 100.000MHz



Outlines and Dimensions



Subject to change without notice

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