

## **SMD** kHz Crystals 1.6 x 1.0 x 0.5 (max) mm 9H T12 Series

## **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.



Quartz Crystals Series

ectrical Specifications	
Item / Type	9H T12
Norminal Frequency	32.768 kHz
Frequency Tolerance(at 25 °C)	$\pm$ 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 ℃ ± 5 ℃
Parabolic Coefficient (B)	$(-0.03 \pm 0.01) * 10^{-6} / °C^2$
Aging (at 25 ℃)	± 3 ppm at first year
Storage Temperature Range	− 55 ~ +125 °C

## **Equivalent Series Resistance(ESR)**

T12 **90** KΩ Max

Dimensions



Units: mm

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