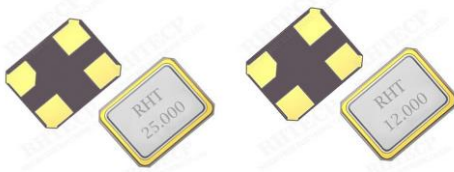




RHT CRYSTAL RESONATORS PRODUCTS

Reliable Honest Trust Electronic Components Partner



Ordering Information

| Part Number | Description |
|--------------------------|---|
| 12.000M8SM3S-15/15BFC47 | SMD 3225 12.000MHz Quartz Crystal Resonator |
| 25.000M18SM3S-20/30DFC47 | SMD 3225 25.000MHz Quartz Crystal Resonator |

Overview

RHT Crystal products are divided into two parts: active and passive. Passive crystal are widely used at low cost. We also recommend RHT active crystal oscillators. At present, all our active crystal oscillators are programmable, including KHz and MHz, can meet almost any requirements. we believe that the programmable crystal oscillator of mems is also the future development direction. In addition, if there are any technical problems & confusions of choice, please don't hesitate to leave us message.

Crystal resonator, also called plug-ins passive crystal, is a passive component with Piezoelectricity; When added voltage to a quartz crystal piece, its physical appearance will change, providing stable and precise frequency as a result. A resonator could not vibrate itself without clock signal in circuit system. Warm tips: All frequencies in the frequency range are available, please contact us for delivery date if unconventional frequency.

Competitive Price Best Packing



Features and Benefits

- SMD QUARTZ CRYSTAL** 3.2 x 2.5 mm 12.0 - 80.0 MHz
- Cheapest available miniature SMD-Crystal in ceramic package
 - High reliability for low cost
 - Frequency tolerances of $\pm 10\text{ppm}@+25^\circ\text{C}$, tight temperature stabilities and low aging deliverable
 - Optimized low ESR resonator design for fast oscillation start-up
 - Extended temperature range to $-40/+125^\circ\text{C}$ available
 - Designed for use in wireless, communication, automotive, etc.
 - Product Name SMD Quartz Crystal
 - Package SMD Ceramic/4pad
 - Dimensions in mm (W x D x H) 3.2 x 2.5 x 0.8 mm
 - Frequency Range 12.00 - 80.00 MHz
 - FREQUENCY TOLERANCES AT 25°C $\pm 10\text{ ppm} \sim \pm 50\text{ ppm}$
 - LOAD CAPACITANCE (CL) 6 pF ~ 30 pF (12 pF standard), or Series
 - WORKING TEMPERATURE RANGES $0/+50^\circ\text{C} \sim -40/+125^\circ\text{C}$
 - SHUNT CAPACITANCE C0 3 pF max.
 - DRIVE LEVEL $10\text{ }\mu\text{W} \sim 100\text{ }\mu\text{W}$ typ. / $200\text{ }\mu\text{W}$ max. (500 μW available on request)
 - AGING $\pm 3\text{ ppm}$ per year standard (± 1 or 2 ppm available on request)
 - INSULATION RESISTANCE $>500\text{ M}\Omega$ DC/100V $\pm 10\%$
 - STORAGE TEMPERATURE $-55^\circ/+125^\circ\text{C}$
 - DELIVERY FORM Tape and Reel (3,000 pcs, other quantities available on request)



Applications

- Infotainment systems
- Keyless entry and startup
- GPS and navigation
- Comfort control
- Advanced driver assistance systems (ADAS)
- Vehicle-to-vehicle communication
- Light detection and ranging (LiDAR)
- In-vehicle networking
- Powertrain and drive control
- Power control and conversion
- Industrial control and automation

For more information visit www.rhtecp.com
or call 86-15168501684



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