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# XRCGB24M000F3M19R0

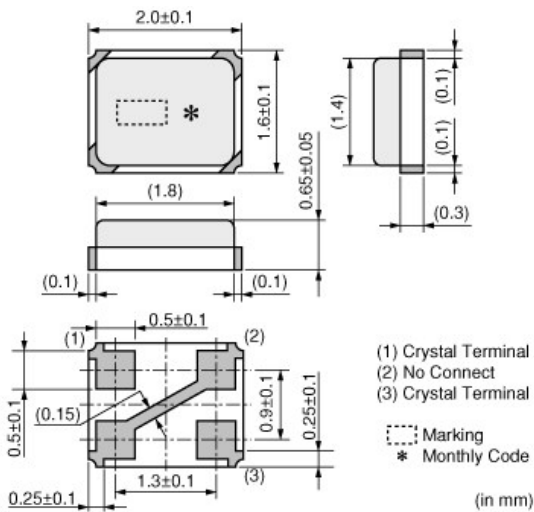
Timing Devices > Crystal Units

In Production ?

RoHS REACH ?



## Appearance & Shape





## Specifications

Type	HCR2016
Frequency	24.0000MHz
Frequency Tolerance	±30ppm max. (25±3°C)

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Product News

 1/10/2017 Murata introduces world's smallest crystal unit of 1.2x1.0mm -No decline in the electrical properties typically seen in miniaturized components- >

 11/24/2016 Murata manufactures new crystal unit series for Bluetooth® devices >

Operating Temperature Range	-40°C to 85°C
Frequency Shift by Temperature	±40ppm max.
Frequency Aging	±5ppm max./year
Wash	Not available
Load Capacitance	6pF
Equivalent Series Resistance(max.)	100Ω
Drive Level(max.)	300μW
Shape	SMD
L x W (size)	2.0x1.6mm



1/29/2015  
Murata's Automotive Industry Focused Crystals are High Performance and Very Cost Effective

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## Features

The crystal unit that realized small package and highly accurate frequency. Based on Murata's excellent package technology and high grade quartz crystal elements, achieving small size and high accuracy resonators.

- Features
1. The series is available in the applications to be necessary for high accuracy resonator. Especially, it is the best for the communication clocks such as S-ATA and USB2.0.
  2. The resonator is extremely small size (2.0 x 1.6 x 0.7 (mm)) , and contribute to reduction in mounting area.
  3. The series complies to RoHS directive, being lead-free (phase 3).

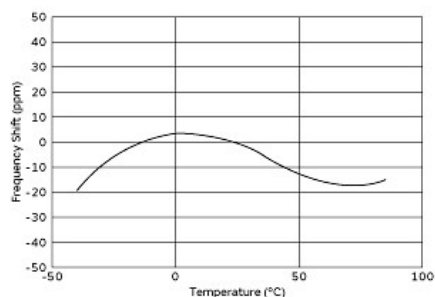
## Applications

Other Usage	Consumer
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## Packaging Information

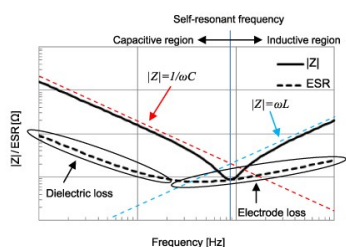
Packaging	Specifications	Minimum Order Quantity
R0	180mm Plastic Tape	3000

## Product Data



Temperature Characteristics

## Recommended Contents



### What are impedance/ ESR frequency ...

In actual capacitors, however, there is some resistance (ESR) from loss due to dielectric substances, electrodes or other components in addition to the capacity component C...

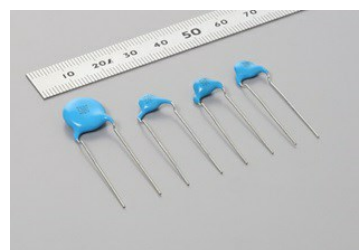
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### Accelerometers

Murata is the global market leader in low-g acceleration sensors for automotive applications. The extensive accelerometer product range includes high performance digital and analog accelerometers for...

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### X1 class AC760V safety standard certified...

Murata Manufacturing Co., Ltd. has developed a new X1 class capacitor, DE1 series Type RB that has been certified for rated voltage AC760V as X1 class, as part of its DE1 series which are IEC 60384-14\*1 compliant...

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Latest Product Information   Capacitor   Inductors   Noise Suppression Products / EMI Suppression Filters / ESD Protection Devices   Resistors   Thermistors   Sensors   Timing Devices (Ceramic Resonator / Crystal Unit / Oscillator)   Quartz Devices   Sound Components (Buzzer)   Power Devices   Small Energy Devices   Batteries   Micro Mechatronics   RFID   Matching Devices   Balun   Coupler   Filters   SAW Components   Phase Shifter   RF Switch   Front End Module   Connectors   Antennas   RF Modules   LPWA Products   Wireless Connectivity Platforms   Ultra Low power Short Range RF-IC   LTCC Multilayer Substrates   Ionizers / Active Oxygen Module (Ozonizers)

## Applications

SmartHome   Medical and Healthcare   Automotive   Mobile Communication   Network   Data Center   Lighting   Industrial Equipment   White Goods   Personal Computers   Business Machine   AV   Security & Safety

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## EU RoHS / REACH

Approach for chemical regulation for Murata Products.



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