XRCGB48M000F0L00R0

Endorsed IC

【Infineon(Cypress)】

MB9AF1x,MB9AF3x,MB9BF1x,MB9BF2x,MB9BF3x,MB9BF4x,MB9BF5x

【Renesas Electronics】

RZ/A1LU

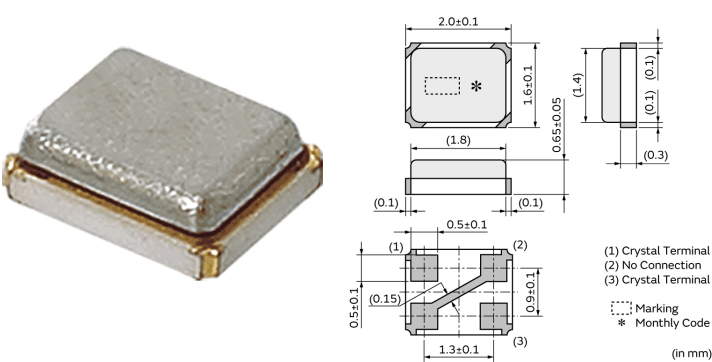【STMicroelectronics】

STM32L476x

In Production RoHS REACH

Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	Consumer equipment,Industrial equipment except for transportation & facility & energy equipment,Medical equipment [GHTF A/B],Mobile Electronics Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product.

Appearance & Shape

2.0±0.1
1.6±0.1
(1.4)
(0.1)
0.65±0.05
(0.1)
(1.8)
(0.3)
(0.1)
0.5±0.1
(0.1)
(1)
(2)
0.5±0.1
(0.15)
0.9±0.1
1.3±0.1
(3)

(1) Crystal Terminal
(2) No Connection
(3) Crystal Terminal

Marking
* Monthly Code

(in mm)

Packaging Information

Packaging	Specifications	Standard Packing Quantity
R0	180mm Plastic Tape	3000

Product Search Data Sheet

Note: If you have not downloaded this document from our official website, please note that the information provided may not be the most current.

Please download the latest datasheet of XRCGB48M000F0L00R0 from the official website of Murata

http://www.murata.com/en-us/products/productdetail?partno=XRCGB48M000F0L00R0

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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 extremerly 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).

URL : https://www.murata.com/

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Specifications

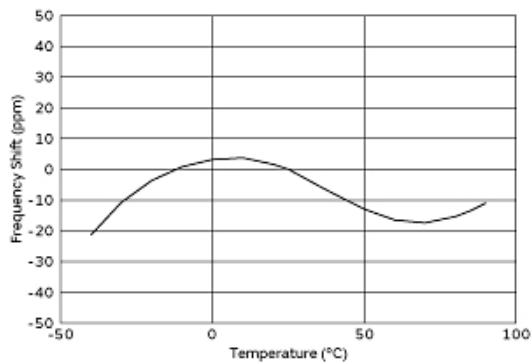|	
Product Type	Crystal Unit
Series	XRCGB
Type	HCR2016
Frequency	48.0000MHz
Frequency Tolerance	+/-100ppm max. (25+/-3℃)
Operating Temperature Range	-30℃~85℃
Frequency Shift by Temperature	+/-50ppm max.
Frequency Aging	+/-50ppm max.
Equivalent Series Resistance (ESR)	100ohm max.
Drive Level (DL)	150µW (300µW max.)
Load Capacitance (Cs)	6pF
Shape	SMD
Wash	Not available
L x W (size)	2.0x1.6mm
Mass	6.9mg
Certified IC Part Number/IC manufacturer	MB9AF1x/Infineon(Cypress) MB9AF3x/Infineon(Cypress) MB9BF1x/Infineon(Cypress) MB9BF2x/Infineon(Cypress) MB9BF3x/Infineon(Cypress) MB9BF4x/Infineon(Cypress) MB9BF5x/Infineon(Cypress) RZ/A1LU /Renesas Electronics STM32L476x/STMicroelectronics

Attention

1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2.This datasheet has only typical specifications because there is no space for detailed specifications.
Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

URL : https://www.murata.com/

Last updated06/13/2025

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Product Data

Temperature Characteristics

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