

# Crystal Resonator



## XRCGB\_F\_N Series [For Consumer Equipment]

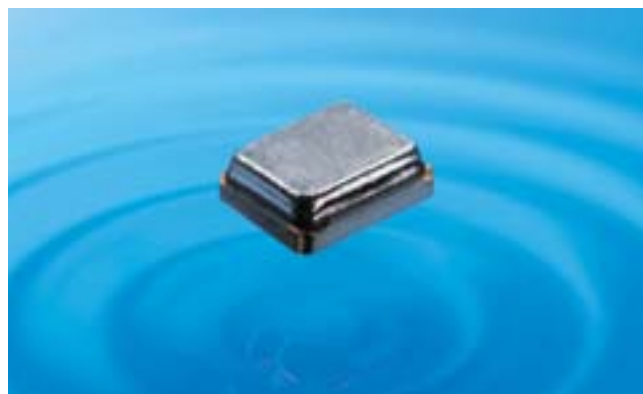
### ■ Features

Small package (2.0x1.6mm)

Compatible with RoHS directive (phase 3)

### ■ Applications

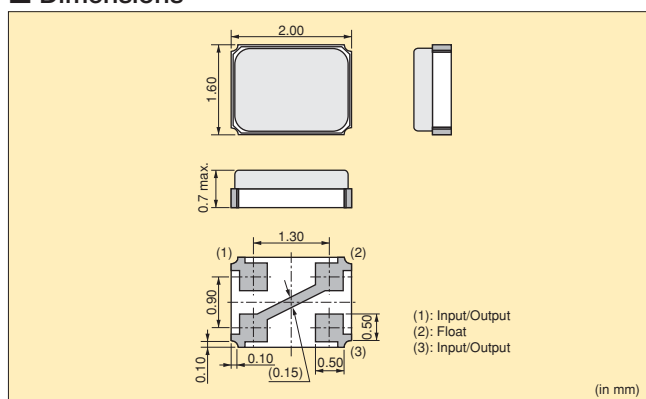
PC / Visual Equipment / Small Portable Equipment



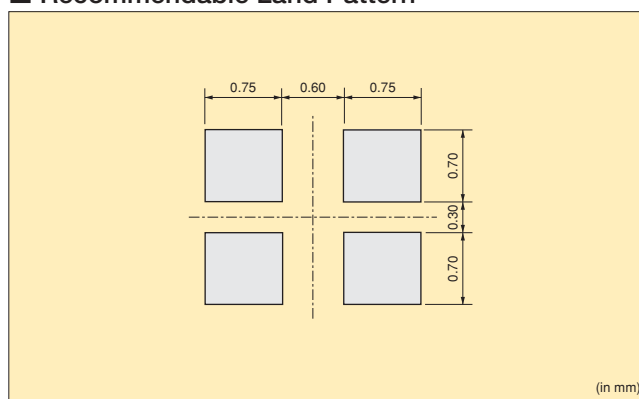
### ■ Standard Specifications

| Part Number        | Nominal Frequency (MHz) | Frequency Tolerance (at 25±3°C) | Equivalent Series Resistance (ohm) | Temperature Stability (Based on +25°C) | Drive Level (μW) | Load Capacitance (pF) |
|--------------------|-------------------------|---------------------------------|------------------------------------|----------------------------------------|------------------|-----------------------|
| XRCGB24M000F3N00R0 | 24.0000                 | ±30ppm max.                     | 150 max.                           | ±30ppm max. (-20 to +85°C)             | 300 max.         | 6                     |
| XRCGB24M000FAN00R0 | 24.0000                 | ±25ppm max.                     | 150 max.                           | ±25ppm max. (-10 to +70°C)             | 300 max.         | 6                     |
| XRCGB25M000F3N00R0 | 25.0000                 | ±30ppm max.                     | 150 max.                           | ±30ppm max. (-20 to +85°C)             | 300 max.         | 6                     |
| XRCGB25M000FAN00R0 | 25.0000                 | ±25ppm max.                     | 150 max.                           | ±25ppm max. (-10 to +70°C)             | 300 max.         | 6                     |
| XRCGB26M000F3N00R0 | 26.0000                 | ±30ppm max.                     | 150 max.                           | ±30ppm max. (-20 to +85°C)             | 300 max.         | 6                     |
| XRCGB26M000FAN00R0 | 26.0000                 | ±25ppm max.                     | 150 max.                           | ±25ppm max. (-10 to +70°C)             | 300 max.         | 6                     |
| XRCGB27M000F3N00R0 | 27.0000                 | ±30ppm max.                     | 150 max.                           | ±30ppm max. (-20 to +85°C)             | 300 max.         | 6                     |
| XRCGB27M000FAN00R0 | 27.0000                 | ±25ppm max.                     | 150 max.                           | ±25ppm max. (-10 to +70°C)             | 300 max.         | 6                     |
| XRCGB30M000F3N00R0 | 30.0000                 | ±30ppm max.                     | 100 max.                           | ±30ppm max. (-20 to +85°C)             | 300 max.         | 6                     |
| XRCGB30M000FAN00R0 | 30.0000                 | ±25ppm max.                     | 100 max.                           | ±25ppm max. (-10 to +70°C)             | 300 max.         | 6                     |

### ■ Dimensions



### ■ Recommendable Land Pattern



### ■ Part Numbering

XRCGB

30M000

F3N00

R0

①
②
③
④

① Series Name

② Nominal Frequency  
Frequency is expressed by six-digit alphanumeric.  
(example: 30.0000MHz → **30M000**)

③ Individual Specification  
With standard products, Individual Specification is "F□N00".  
□ are the alphanumeric characters indicating Frequency Tolerance.

④ Packaging

# Crystal Resonator



## XRCGB\_F\_M Series [For Consumer Equipment]

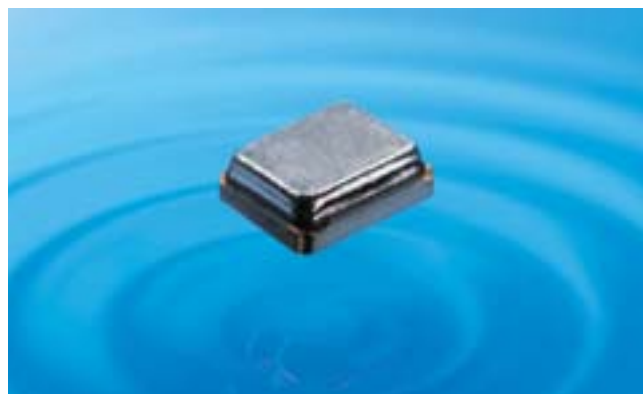
### ■ Features

Small package (2.0x1.6mm)

Compatible with RoHS directive (phase 3)

### ■ Applications

PC / Visual Equipment / Small Portable Equipment

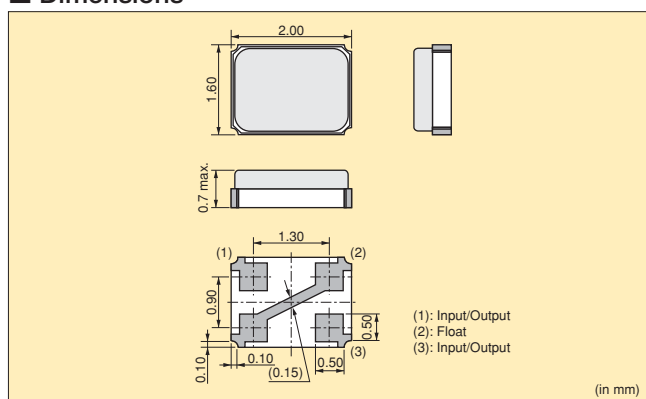


### ■ Standard Specifications

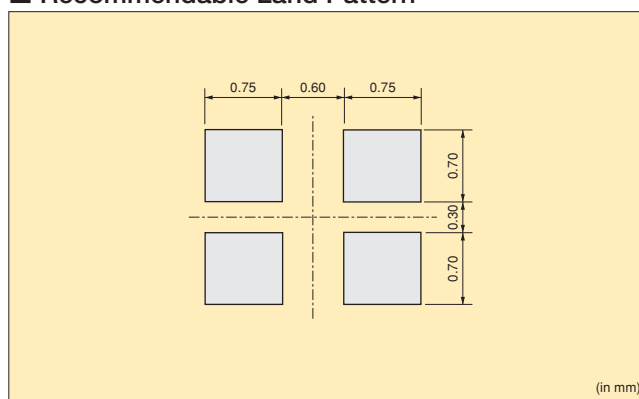
| Part Number        | Nominal Frequency (MHz) | Frequency Tolerance (at 25±3°C) | Equivalent Series Resistance (ohm) | Temperature Stability (Based on +25°C) | Drive Level (μW) | Load Capacitance (pF) |
|--------------------|-------------------------|---------------------------------|------------------------------------|----------------------------------------|------------------|-----------------------|
| XRCGB24M000F3M00R0 | 24.0000                 | ±30ppm max.                     | 150 max.                           | ±40ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB25M000F3M00R0 | 25.0000                 | ±30ppm max.                     | 150 max.                           | ±40ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB26M000F3M00R0 | 26.0000                 | ±30ppm max.                     | 150 max.                           | ±40ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB27M000F3M00R0 | 27.0000                 | ±30ppm max.                     | 150 max.                           | ±40ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB27M120F3M00R0 | 27.1200                 | ±30ppm max.                     | 150 max.                           | ±40ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB30M000F3M00R0 | 30.0000                 | ±30ppm max.                     | 100 max.                           | ±40ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB33M868F4M00R0 | 33.8688                 | ±45ppm max.                     | 100 max.                           | ±40ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB40M000F4M00R0 | 40.0000                 | ±45ppm max.                     | 100 max.                           | ±40ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB48M000F4M00R0 | 48.0000                 | ±45ppm max.                     | 100 max.                           | ±40ppm max. (-30 to +85°C)             | 300 max.         | 6                     |

Operating Temperature Range: -30 to +85°C

### ■ Dimensions



### ■ Recommendable Land Pattern



### ■ Part Numbering

|       |        |       |    |
|-------|--------|-------|----|
| XRCGB | 30M000 | F3M00 | R0 |
| ①     | ②      | ③     | ④  |

① Series Name  
② Nominal Frequency  
Frequency is expressed by six-digit alphanumeric.  
(example: 30.0000MHz → **30M000**)  
③ Individual Specification  
With standard products, Individual Specification is "F□M00".  
□ are the alphanumeric characters indicating Frequency Tolerance.  
④ Packaging

# Crystal Resonator



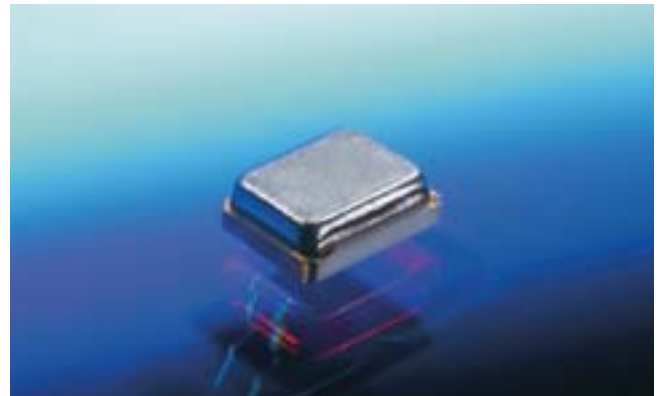
## XRCGB\_F\_L Series [For Consumer Equipment]

### ■ Features

Available for S-ATA and USB2.0 (High Speed) /  
USB3.0 (Super Speed)  
Small package (2.0x1.6mm)  
Compatible with RoHS directive (phase 3)

### ■ Applications

HDD / SSD /Optical Drive (Available for S-ATA interface)  
DSC / Camcorder / USB Flash Drive / Printer / Mobile Phone  
etc. (USB2.0 / 3.0)

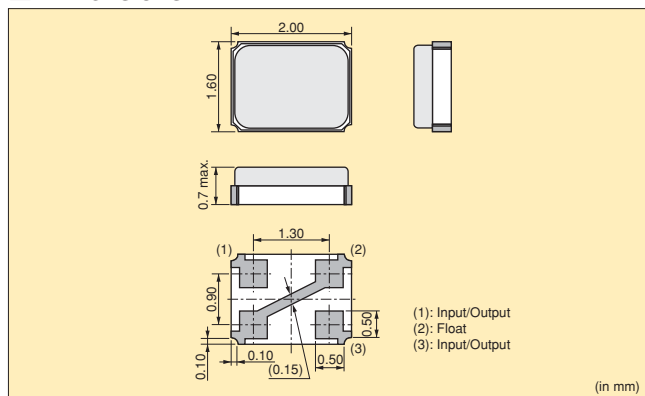


### ■ Standard Specifications

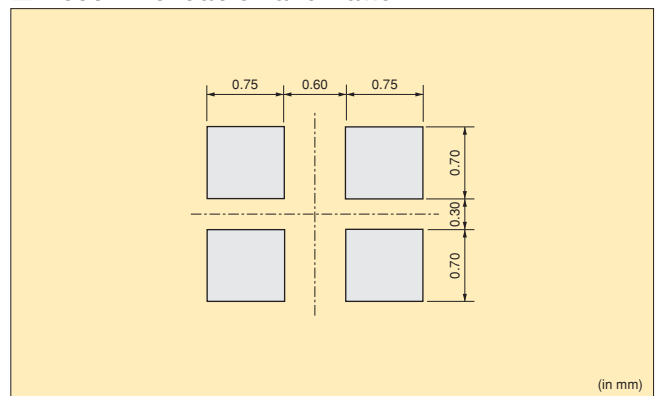
| Part Number        | Nominal Frequency (MHz) | Frequency Tolerance (at 25±3°C) | Equivalent Series Resistance (ohm) | Temperature Stability (Based on +25°C) | Drive Level (μW) | Load Capacitance (pF) |
|--------------------|-------------------------|---------------------------------|------------------------------------|----------------------------------------|------------------|-----------------------|
| XRCGB24M000F0L00R0 | 24.0000                 | ±100ppm max.                    | 150 max.                           | ±50ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB25M000F0L00R0 | 25.0000                 | ±100ppm max.                    | 150 max.                           | ±50ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB26M000F0L00R0 | 26.0000                 | ±100ppm max.                    | 150 max.                           | ±50ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB27M000F0L00R0 | 27.0000                 | ±100ppm max.                    | 150 max.                           | ±50ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB30M000F0L00R0 | 30.0000                 | ±100ppm max.                    | 100 max.                           | ±50ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB33M868F0L00R0 | 33.8688                 | ±100ppm max.                    | 100 max.                           | ±50ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB40M000F0L00R0 | 40.0000                 | ±100ppm max.                    | 100 max.                           | ±50ppm max. (-30 to +85°C)             | 300 max.         | 6                     |
| XRCGB48M000F0L00R0 | 48.0000                 | ±100ppm max.                    | 100 max.                           | ±50ppm max. (-30 to +85°C)             | 300 max.         | 6                     |

Operating Temperature Range: -30 to +85°C

### ■ Dimensions



### ■ Recommendable Land Pattern



### ■ Part Numbering

|       |        |       |    |
|-------|--------|-------|----|
| XRCGB | 33M868 | F0L00 | R0 |
| ①     | ②      | ③     | ④  |

① Series Name  
② Nominal Frequency  
Frequency is expressed by six-digit alphanumeric.  
(example: 33.8688MHz → **33M868**)  
③ Individual Specification  
With standard products, Individual Specification is "F0L00".  
④ Packaging

### EU RoHS Compliant

- All the products in this catalog comply with EU RoHS.
- EU RoHS is "the European Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment."
- For more details, please refer to our website 'Murata's Approach for EU RoHS' (<http://www.murata.com/info/rohs.html>).

### ⚠Note:

#### 1. Export Control

<For customers outside Japan>

No Murata products should be used or sold, through any channels, for use in the design, development, production, utilization, maintenance or operation of, or otherwise contribution to (1) any weapons (Weapons of Mass Destruction [nuclear, chemical or biological weapons or missiles] or conventional weapons) or (2) goods or systems specially designed or intended for military end-use or utilization by military end-users.

<For customers in Japan>

For products which are controlled items subject to the "Foreign Exchange and Foreign Trade Law" of Japan, the export license specified by the law is required for export.

#### 2. Please contact our sales representatives or product engineers before using the products in this catalog for the applications listed below, which require especially high reliability for the prevention of defects which might directly damage a third party's life, body or property, or when one of our products is intended for use in applications other than those specified in this catalog.

- |                             |                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------|
| ① Aircraft equipment        | ② Aerospace equipment                                                                                |
| ③ Undersea equipment        | ④ Power plant equipment                                                                              |
| ⑤ Medical equipment         | ⑥ Transportation equipment (vehicles, trains, ships, etc.)                                           |
| ⑦ Traffic signal equipment  | ⑧ Disaster prevention / crime prevention equipment                                                   |
| ⑨ Data-processing equipment | ⑩ Application of similar complexity and/or reliability requirements to the applications listed above |

#### 3. Product specifications in this catalog are as of July 2012. They 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. If there are any questions, please contact our sales representatives or product engineers.

#### 4. Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.

#### 5. This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

#### 6. Please note that unless otherwise specified, we shall assume no responsibility whatsoever for any conflict or dispute that may occur in connection with the effect of our and/or a third party's intellectual property rights and other related rights in consideration of your use of our products and/or information described or contained in our catalogs. In this connection, no representation shall be made to the effect that any third parties are authorized to use the rights mentioned above under licenses without our consent.

#### 7. No ozone depleting substances (ODS) under the Montreal Protocol are used in our manufacturing process.



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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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