# Crystal Resonator

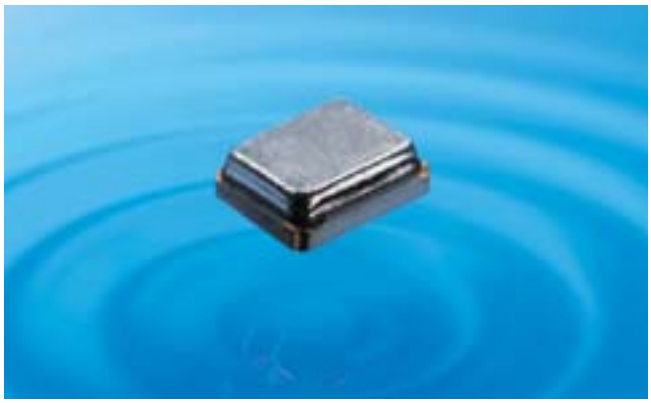
## XRCGB_F_N Series [For Consumer Equipment]

### ■ Features

Small package (2.0x1.6mm)
Compatible with RoHS directive (phase 3)

### ■ Applications

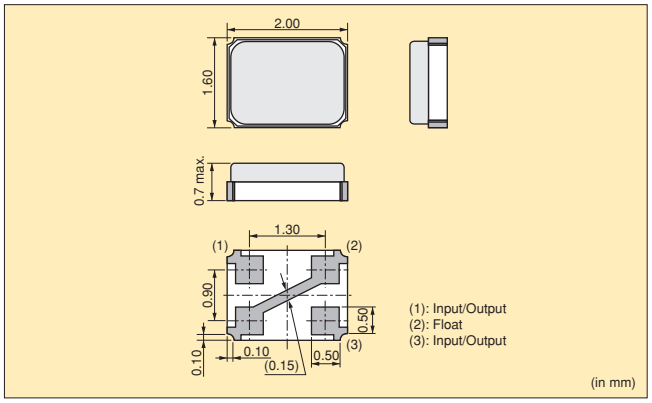
PC / Visual Equipment / Small Portable Equipment



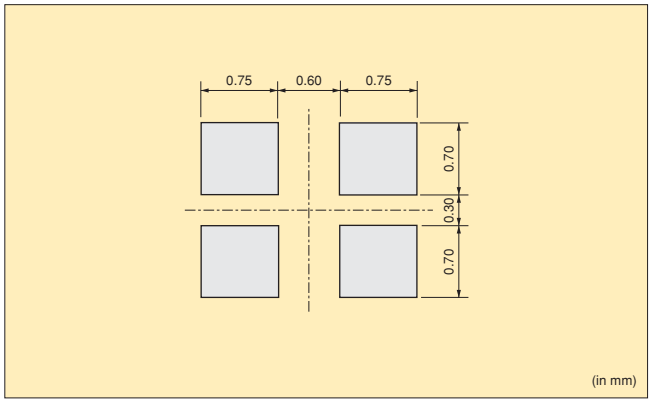
### ■ Standard Specifications

| 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 |
|---|---|---|---|
| ❶ | ❷ | ❸ | ❹ |

❶Series Name
❷Nominal Frequency
Frequency is expressed by six-digit alphanumeric.
(example: 30.0000MHz → **30M000**)
❸Individual Specification
With standard products, Individual Specification is "**F□N00**".
□ are the alphanumeric characters indicating Frequency Tolerance.
❹Packaging

# Crystal Resonator

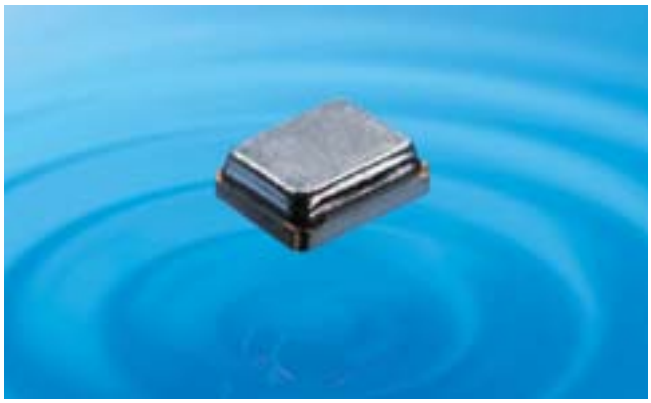
## XRCGB_F_M Series [For Consumer Equipment]

### ■ Features

Small package (2.0x1.6mm)
Compatible with RoHS directive (phase 3)

### ■ Applications

PC / Visual Equipment / Small Portable Equipment

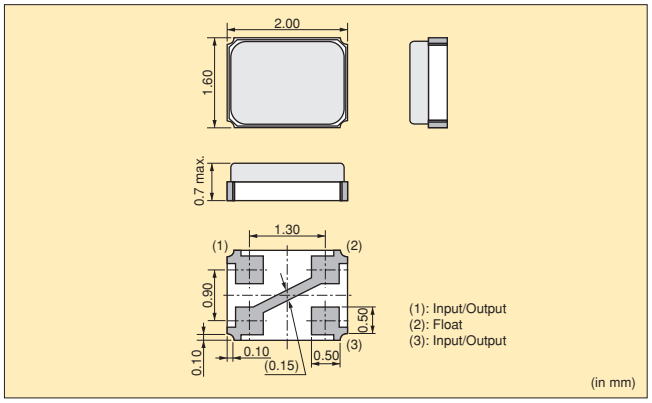


### ■ Standard Specifications

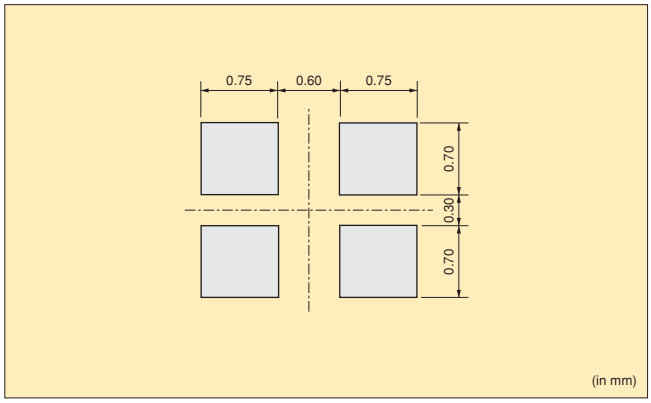
| Part Number | Nominal Frequency (MHz) | Frequency Tolerance (at 25±3°C) | Equivalent Series Resistance (ohm) | Temperature Stability (Based on +25°C) | Drive Level (μW) | Load Capacitance (pF) |
|---|---|---|---|---|---|---|
| **XRCGB24M000F3M00R0** | 24.0000 | ±30ppm max. | 150 max. | ±40ppm max. (-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 |
|---|---|---|---|
| ❶ | ❷ | ❸ | ❹ |

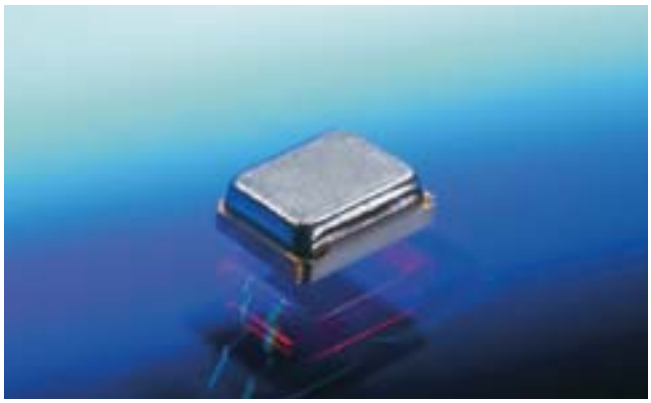
❶Series Name
❷Nominal Frequency
Frequency is expressed by six-digit alphanumeric.
(example: 30.0000MHz → **30M000**)
❸Individual Specification
With standard products, Individual Specification is "**F□M00**".
□ are the alphanumeric characters indicating Frequency Tolerance.
❹Packaging

# 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

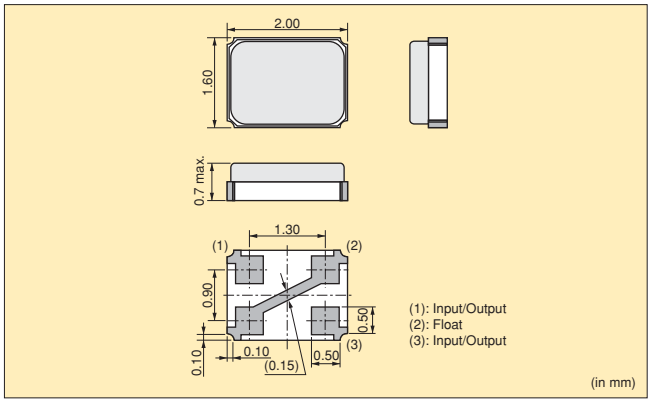
HDD / SSD /Optical Drive (Available for S-ATA interface)
DSC / Camcorder / USB Flash Drive / Printer / Mobile Phone
etc. (USB2.0 / 3.0)

### ■ Standard Specifications

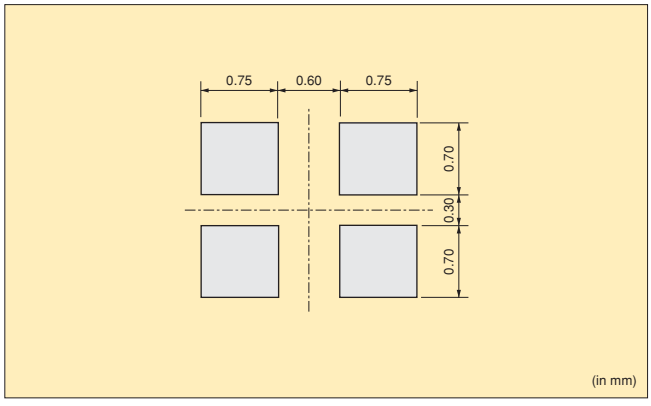
| Part Number | Nominal Frequency (MHz) | Frequency Tolerance (at 25±3°C) | Equivalent Series Resistance (ohm) | Temperature Stability (Based on +25°C) | Drive Level (μW) | Load Capacitance (pF) |
|---|---|---|---|---|---|---|
| **XRCGB24M000F0L00R0** | 24.0000 | ±100ppm max. | 150 max. | ±50ppm max. (-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 |
|---|---|---|---|
| ❶ | ❷ | ❸ | ❹ |

❶Series Name
❷Nominal Frequency
Frequency is expressed by six-digit alphanumeric.
(example: 33.8688MHz → **33M868**)
❸Individual Specification
With standard products, Individual Specification is "**F0L00**".
❹Packaging

**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.
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   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.
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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
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- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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