

# 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>).

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##### 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.

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



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