

Crystal Resonator



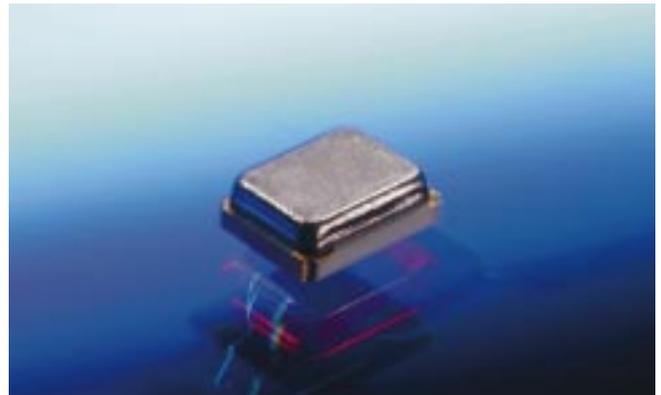
XRCGB Series [For Consumer Equipment]

■ Features

Available for S-ATA and USB2.0 (High Speed)
 Small package (2.0x1.6mm)

■ Applications

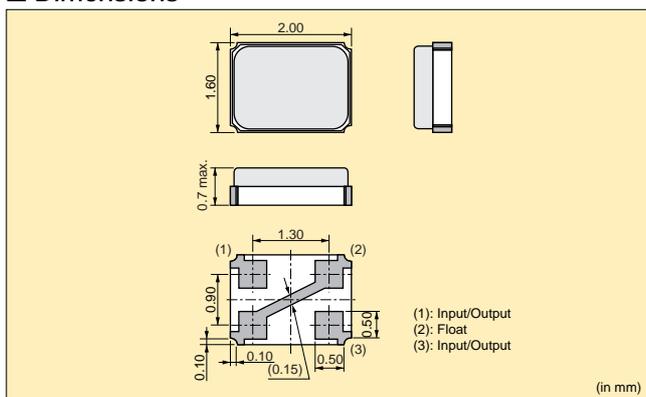
HDD / SSD /Optical Drive (Available for S-ATA interface)
 DSC / Camcorder / USB Flash Drive / Printer / Mobile Phone
 etc. (USB2.0)



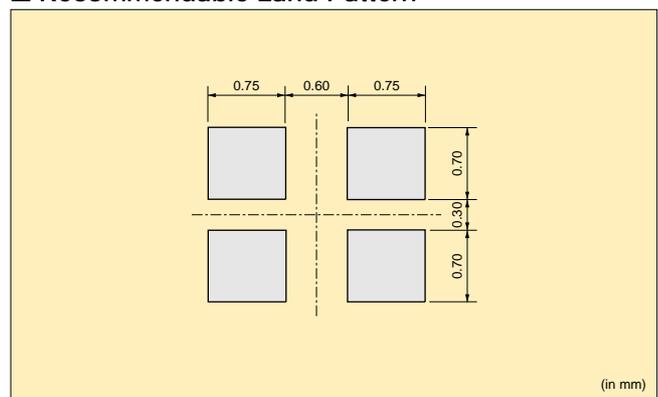
■ Standard Specifications

Item	Specifications	Remark
Nominal Frequency	24.0000MHz 25.0000MHz 27.0000MHz 30.0000MHz 33.8688MHz 40.0000MHz 48.0000MHz	The available nominal frequencies are shown in left.
Frequency Tolerance	±100ppm	+25±3°C
Frequency Shift by Temperature	±50ppm (-30 to +85°C)	Based on +25°C
Operating Temperature	-30 to +85°C	
Equivalent Series Resistance	100Ω max. (Over 30.0000MHz) 150Ω max. (24.0000MHz/25.0000MHz/27.0000MHz)	
Drive Level	300μW max.	
Load Capacitance	6pF	

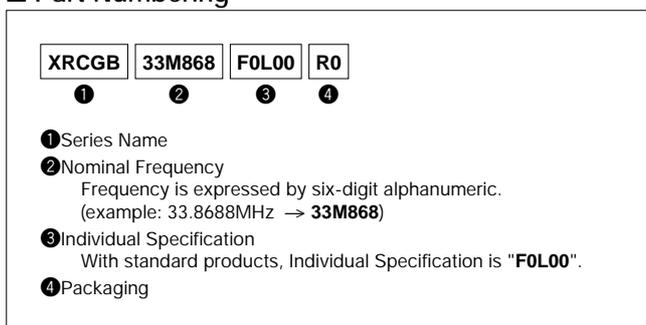
■ Dimensions



■ Recommendable Land Pattern



■ Part Numbering



Crystal Resonator



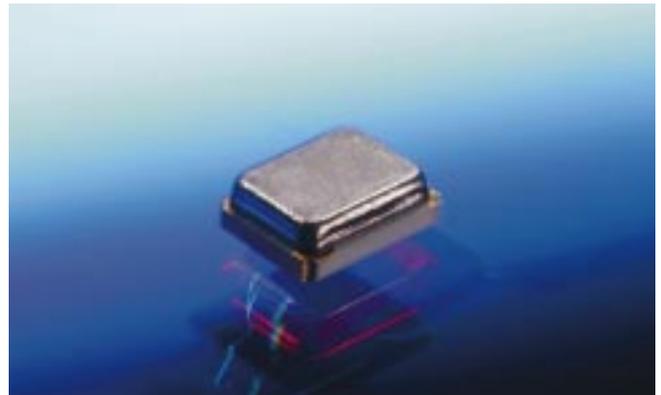
XRCGA Series [For Consumer Equipment]

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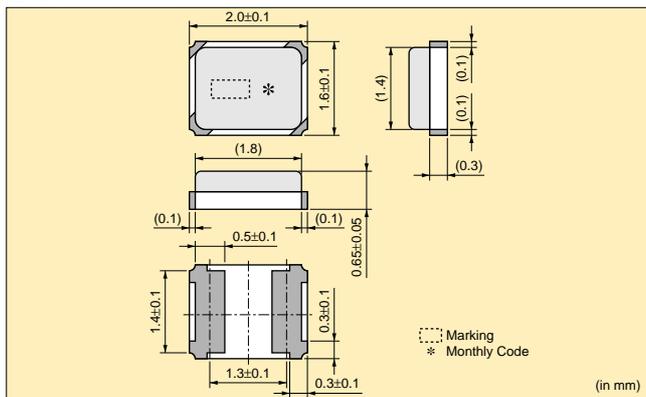
HDD / SSD / Optical Drive (Available for S-ATA interface)
 DSC / Camcorder / USB Flash Drive / Printer / Mobile Phone
 etc. (USB2.0)



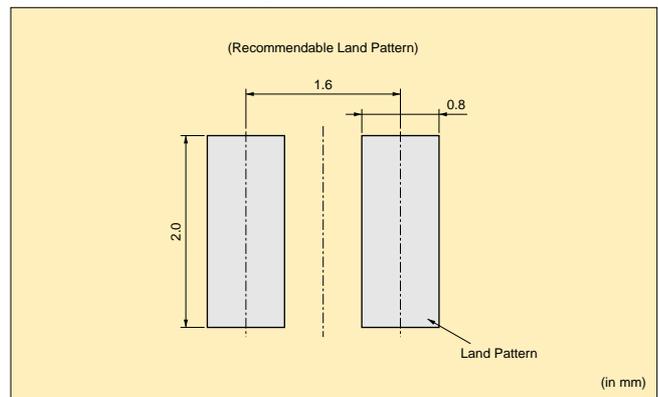
■ Standard Specifications

Item	Specifications	Remark
Nominal Frequency	24.0000MHz 25.0000MHz 30.0000MHz 33.8688MHz 40.0000MHz 48.0000MHz 50.0000MHz	The available nominal frequencies are shown in left.
Frequency Tolerance	±100ppm	+25±3°C
Frequency Shift by Temperature	±50ppm (-30 to +85°C)	Based on +25°C
Operating Temperature	-30 to +85°C	
Equivalent Series Resistance	100Ω max. (Over 30.0000MHz) 150Ω max. (24.0000MHz/25.0000MHz)	
Drive Level	300μW max.	
Load Capacitance	6pF	

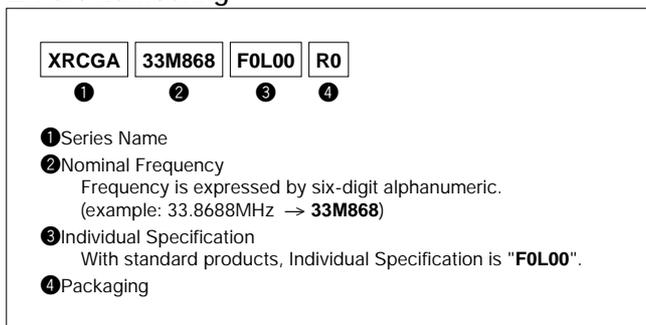
■ Dimensions



■ Recommendable Land Pattern



■ Part Numbering



for EU RoHS Compliant

- All the products in this catalog comply with EU RoHS.
- EU RoHS is "the European Directive 2002/95/EC 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 May 2010. 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 because there is no space for detailed 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.