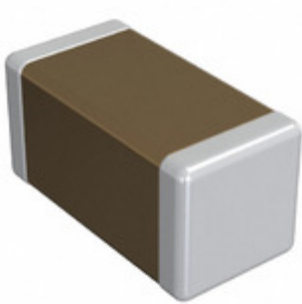


GRM188R61E224KA88D



  
INNOVATOR IN ELECTRONICS

**Part Number:** [GRM188R61E224KA88D](#)

**Manufacturer:** [Murata Electronics](#)

**Description:** CAP CER 0.22UF 25V X5R 0603

**Data sheet:**  [Specifications and Test Methods 3p](#)  
 [Chip Monolithic Ceramic Caps Part Numbering](#)  
 [GRM188R61E224KA88 Ref Sheet](#)  
 [Chip Monolithic Ceramic Caps Catalog](#)

**RoHs Status:** Lead free / RoHS Compliant

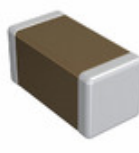
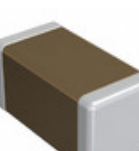
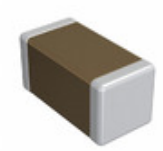
**Ship From:** Hong Kong

**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
See Product Specifications for product details.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                       |                             |                                  |                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                             | GRM188R61E224KA88D          | Manufacturer                     | <a href="#">Murata Electronics</a>                                                                                                                                                                                       |
| Description                                                                                                                                                                                                                                                                                                                                                                                                             | CAP CER 0.22UF 25V X5R 0603 | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                               |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                      | 1549774 pcs                 | Data sheet                       | <a href="#">Specifications and Test Methods 3p</a><br><a href="#">Chip Monolithic Ceramic Caps Part Numbering</a><br><a href="#">GRM188R61E224KA88 Ref Sheet</a><br><a href="#">Chip Monolithic Ceramic Caps Catalog</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Capacitors</a>  | Voltage - Rated                  | 25V                                                                                                                                                                                                                      |
| Tolerance                                                                                                                                                                                                                                                                                                                                                                                                               | ±10%                        | Thickness (Max)                  | 0.035" (0.90mm)                                                                                                                                                                                                          |
| Temperature Coefficient                                                                                                                                                                                                                                                                                                                                                                                                 | X5R                         | Size / Dimension                 | 0.063" L x 0.032" W (1.60mm x 0.80mm)                                                                                                                                                                                    |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                  | GRM                         | Ratings                          | -                                                                                                                                                                                                                        |
| Packaging                                                                                                                                                                                                                                                                                                                                                                                                               | Cut Tape (CT)               | Package / Case                   | 0603 (1608 Metric)                                                                                                                                                                                                       |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                             | 490-11502-1                 | Operating Temperature            | -55°C ~ 85°C                                                                                                                                                                                                             |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                           | Surface Mount, MLCC         | Moisture Sensitivity Level (MSL) | 1 (Unlimited)                                                                                                                                                                                                            |
| Lead Style                                                                                                                                                                                                                                                                                                                                                                                                              | -                           | Lead Spacing                     | -                                                                                                                                                                                                                        |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant  | Height - Seated (Max)            | -                                                                                                                                                                                                                        |
| Features                                                                                                                                                                                                                                                                                                                                                                                                                | -                           | Detailed Description             | 0.22µF ±10% 25V Ceramic Capacitor X5R 0603 (1608 Metric)                                                                                                                                                                 |
| Capacitance                                                                                                                                                                                                                                                                                                                                                                                                             | 0.22µF                      | Applications                     | General Purpose                                                                                                                                                                                                          |
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|  | Part#: <a href="#">GRM188R61E474KA12D</a><br>Description: CAP CER 0.47UF 25V X5R 0603 | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
|  | Part#: <a href="#">GRM188R61E474KA12J</a><br>Description: CAP CER 0.47UF 25V X5R 0603 | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
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|  | Part#: <a href="#">GRM188R61E225ME84D</a><br>Description: CAP CER 2.2UF 25V X5R 0603  | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
|  | Part#: <a href="#">GRM188R61E106MA73J</a><br>Description: CAP CER 10UF 25V X5R 0603   | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
|  | Part#: <a href="#">GRM188R61E105MA12D</a><br>Description: CAP CER 1UF 25V X5R 0603    | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
|  | Part#: <a href="#">GRM188R61C684MA75D</a><br>Description: CAP CER 0.68UF 16V X5R 0603 | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
|  | Part#: <a href="#">GRM188R61C684KA75J</a><br>Description: CAP CER 0.68UF 16V X5R 0603 | Manufacturers: <a href="#">Murata Electronics North America</a> | <div>RFQ</div> |
|  | Part#: <a href="#">GRM188R61E475KE11J</a><br>Description: CAP CER 4.7UF 25V X5R 0603  | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
|  | Part#: <a href="#">GRM188R61E104KA01D</a><br>Description: CAP CER 0.1UF 25V X5R 0603  | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
|  | Part#: <a href="#">GRM188R61E475KE11D</a><br>Description: CAP CER 4.7UF 25V X5R 0603  | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
|  | Part#: <a href="#">GRM188R61E225MA12D</a><br>Description: CAP CER 2.2UF 25V X5R 0603  | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
|  | Part#: <a href="#">GRM188R61E105KA12D</a><br>Description: CAP CER 1UF 25V X5R 0603    | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
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|  | Part#: <a href="#">GRM188R61E106MA73D</a><br>Description: CAP CER 10UF 25V X5R 0603   | Manufacturers: <a href="#">Murata Electronics</a>               | <div>RFQ</div> |
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