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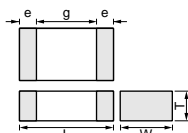
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Jameco Part Number 1859378

## Monolithic Ceramic Capacitors for Medium-voltage

High-capacitance for General-use



Part Number	Dimensions (mm)				
	L	W	T	e	g min.
GRM188	1.6 ±0.1	0.8 ±0.1	0.8 ±0.1	0.2 to 0.5	0.4
GRM21A	2.0 ±0.2	1.25 ±0.2	1.0 +0,-0.3		0.3 min.
GRM21B			1.25 ±0.2		
GRM31B	3.2 ±0.2	1.6 ±0.2	1.25 +0,-0.3		
GRM31C			1.6 ±0.2		
GRM32Q	3.2 ±0.3	2.5 ±0.2	1.5 +0,-0.3		
GRM32D			2.0 +0,-0.3		
GRM43Q	4.5 ±0.4	3.2 ±0.3	1.5 +0,-0.3		
GRM43D			2.0 +0,-0.3		
GRM55D	5.7 ±0.4	5.0 ±0.4	2.0 +0,-0.3	3.2	

Part Number	Rated Voltage (V)	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T (mm)	Electrode g (mm)	Electrode e (mm)
GRM188R72E221KW07D	DC250	X7R (EIA)	220pF +10,-10%	1.6	0.8	0.8	0.4 min.	0.2 to 0.5
GRM188R72E331KW07D	DC250	X7R (EIA)	330pF +10,-10%	1.6	0.8	0.8	0.4 min.	0.2 to 0.5
GRM188R72E471KW07D	DC250	X7R (EIA)	470pF +10,-10%	1.6	0.8	0.8	0.4 min.	0.2 to 0.5
GRM188R72E681KW07D	DC250	X7R (EIA)	680pF +10,-10%	1.6	0.8	0.8	0.4 min.	0.2 to 0.5
GRM188R72E102KW07D	DC250	X7R (EIA)	1000pF +10,-10%	1.6	0.8	0.8	0.4 min.	0.2 to 0.5
GRM21AR72E102KW01D	DC250	X7R (EIA)	1000pF +10,-10%	2.0	1.25	1.0	0.7 min.	0.3 min.
GRM188R72E152KW07D	DC250	X7R (EIA)	1500pF +10,-10%	1.6	0.8	0.8	0.4 min.	0.2 to 0.5
GRM21AR72E152KW01D	DC250	X7R (EIA)	1500pF +10,-10%	2.0	1.25	1.0	0.7 min.	0.3 min.
GRM188R72E222KW07D	DC250	X7R (EIA)	2200pF +10,-10%	1.6	0.8	0.8	0.4 min.	0.2 to 0.5
GRM21AR72E222KW01D	DC250	X7R (EIA)	2200pF +10,-10%	2.0	1.25	1.0	0.7 min.	0.3 min.
GRM21AR72E332KW01D	DC250	X7R (EIA)	3300pF +10,-10%	2.0	1.25	1.0	0.7 min.	0.3 min.
GRM21AR72E472KW01D	DC250	X7R (EIA)	4700pF +10,-10%	2.0	1.25	1.0	0.7 min.	0.3 min.
GRM21AR72E682KW01D	DC250	X7R (EIA)	6800pF +10,-10%	2.0	1.25	1.0	0.7 min.	0.3 min.
GRM21BR72E103KW03L	DC250	X7R (EIA)	10000pF +10,-10%	2.0	1.25	1.25	0.7 min.	0.3 min.
GRM31BR72E153KW01L	DC250	X7R (EIA)	15000pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR72E223KW01L	DC250	X7R (EIA)	22000pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31CR72E333KW03L	DC250	X7R (EIA)	33000pF +10,-10%	3.2	1.6	1.6	1.2 min.	0.3 min.
GRM31CR72E473KW03L	DC250	X7R (EIA)	47000pF +10,-10%	3.2	1.6	1.6	1.2 min.	0.3 min.
GRM31BR72E683KW01L	DC250	X7R (EIA)	68000pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM32QR72E683KW01L	DC250	X7R (EIA)	68000pF +10,-10%	3.2	2.5	1.5	1.2 min.	0.3 min.
GRM31CR72E104KW03L	DC250	X7R (EIA)	0.10μF +10,-10%	3.2	1.6	1.6	1.2 min.	0.3 min.
GRM32DR72E104KW01L	DC250	X7R (EIA)	0.10μF +10,-10%	3.2	2.5	2.0	1.2 min.	0.3 min.
GRM43QR72E154KW01L	DC250	X7R (EIA)	0.15μF +10,-10%	4.5	3.2	1.5	2.2 min.	0.3 min.
GRM32DR72E224KW01L	DC250	X7R (EIA)	0.22μF +10,-10%	3.2	2.5	2.0	1.2 min.	0.3 min.
GRM43DR72E224KW01L	DC250	X7R (EIA)	0.22μF +10,-10%	4.5	3.2	2.0	2.2 min.	0.3 min.
GRM43DR72E334KW01L	DC250	X7R (EIA)	0.33μF +10,-10%	4.5	3.2	2.0	2.2 min.	0.3 min.
GRM55DR72E334KW01L	DC250	X7R (EIA)	0.33μF +10,-10%	5.7	5.0	2.0	3.2 min.	0.3 min.
GRM43DR72E474KW01L	DC250	X7R (EIA)	0.47μF +10,-10%	4.5	3.2	2.0	2.2 min.	0.3 min.
GRM55DR72E474KW01L	DC250	X7R (EIA)	0.47μF +10,-10%	5.7	5.0	2.0	3.2 min.	0.3 min.
GRM55DR72E105KW01L	DC250	X7R (EIA)	1.0μF +10,-10%	5.7	5.0	2.0	3.2 min.	0.3 min.
GRM31BR72J102KW01L	DC630	X7R (EIA)	1000pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR72J152KW01L	DC630	X7R (EIA)	1500pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR72J222KW01L	DC630	X7R (EIA)	2200pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR72J332KW01L	DC630	X7R (EIA)	3300pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR72J472KW01L	DC630	X7R (EIA)	4700pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR72J682KW01L	DC630	X7R (EIA)	6800pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR72J103KW01L	DC630	X7R (EIA)	10000pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31CR72J153KW03L	DC630	X7R (EIA)	15000pF +10,-10%	3.2	1.6	1.6	1.2 min.	0.3 min.
GRM32QR72J223KW01L	DC630	X7R (EIA)	22000pF +10,-10%	3.2	2.5	1.5	1.2 min.	0.3 min.
GRM32DR72J333KW01L	DC630	X7R (EIA)	33000pF +10,-10%	3.2	2.5	2.0	1.2 min.	0.3 min.

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△Note • 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. Especially, please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in them to prevent smoking and/or burning, etc.  
• You are able to read a detailed specifications in the website (<http://search.murata.co.jp/>) before to require our product specifications or to transact the approval sheet for product specifications.

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Part Number	Rated Voltage (V)	TC Code (Standard)	Capacitance	Length L (mm)	Width W (mm)	Thickness T (mm)	Electrode g (mm)	Electrode e (mm)
GRM32DR72J473KW01L	DC630	X7R (EIA)	47000pF +10,-10%	3.2	2.5	2.0	1.2 min.	0.3 min.
GRM43QR72J683KW01L	DC630	X7R (EIA)	68000pF +10,-10%	4.5	3.2	1.5	2.2 min.	0.3 min.
GRM43DR72J104KW01L	DC630	X7R (EIA)	0.10μF +10,-10%	4.5	3.2	2.0	2.2 min.	0.3 min.
GRM55DR72J154KW01L	DC630	X7R (EIA)	0.15μF +10,-10%	5.7	5.0	2.0	3.2 min.	0.3 min.
GRM55DR72J224KW01L	DC630	X7R (EIA)	0.22μF +10,-10%	5.7	5.0	2.0	3.2 min.	0.3 min.
GRM31BR73A471KW01L	DC1000	X7R (EIA)	470pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR73A102KW01L	DC1000	X7R (EIA)	1000pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR73A152KW01L	DC1000	X7R (EIA)	1500pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR73A222KW01L	DC1000	X7R (EIA)	2200pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR73A332KW01L	DC1000	X7R (EIA)	3300pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM31BR73A472KW01L	DC1000	X7R (EIA)	4700pF +10,-10%	3.2	1.6	1.25	1.2 min.	0.3 min.
GRM32QR73A682KW01L	DC1000	X7R (EIA)	6800pF +10,-10%	3.2	2.5	1.5	1.2 min.	0.3 min.
GRM32QR73A103KW01L	DC1000	X7R (EIA)	10000pF +10,-10%	3.2	2.5	1.5	1.2 min.	0.3 min.
GRM32DR73A153KW01L	DC1000	X7R (EIA)	15000pF +10,-10%	3.2	2.5	2.0	1.2 min.	0.3 min.
GRM32DR73A223KW01L	DC1000	X7R (EIA)	22000pF +10,-10%	3.2	2.5	2.0	1.2 min.	0.3 min.
GRM43DR73A333KW01L	DC1000	X7R (EIA)	33000pF +10,-10%	4.5	3.2	2.0	2.2 min.	0.3 min.
GRM43DR73A473KW01L	DC1000	X7R (EIA)	47000pF +10,-10%	4.5	3.2	2.0	2.2 min.	0.3 min.
GRM55DR73A104KW01L	DC1000	X7R (EIA)	0.10μF +10,-10%	5.7	5.0	2.0	3.2 min.	0.3 min.

Operating Temperature Range : -55 to +125deg.

Only tape packaging is available.