

Chip Monolithic Ceramic Capacitors (Medium Voltage)



Low Dissipation Factor GRM Series

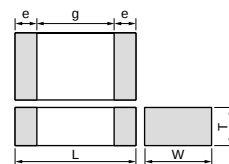
■ Features

1. Low-loss and suitable for high frequency circuits
2. Murata's original internal electrode structure provides high flash-over voltage.
3. A new monolithic structure for small, surface-mountable devices capable of operating at high voltage levels
4. Sn-plated external electrodes provides good solderability.
5. Use the GRM21/31 type with flow or reflow soldering, and other types with reflow soldering only.

■ Applications

Ideal for use on high frequency pulse circuits such as snubber circuits for switching power supplies, DC-DC converters, ballasts (inverter fluorescent lamps), etc.

Do not use these products in any Automotive Power train or Safety equipment including Battery chargers for Electric Vehicles and Plug-in Hybrids. Only Murata products clearly stipulated as "for Automotive use" can be used for automobile applications such as Power train and Safety equipment.



Part Number	Dimensions (mm)				
	L	W	T	e min.	g min.
GRM21A	2.0 ±0.2	1.25 ±0.2	1.0 +0,-0.3	0.3	0.7
GRM21B			1.25 ±0.2		
GRM31A	3.2 ±0.2	1.6 ±0.2	1.0 +0,-0.3		1.5*
GRM31B			1.25 +0,-0.3		
GRM32A	3.2 ±0.2	2.5 ±0.2	1.0 +0,-0.3		
GRM32B			1.25 +0,-0.3		
GRM42A	4.5 ±0.3	2.0 ±0.2	1.0 +0,-0.3		2.9

* GRM31A7U3D, GRM32A7U3D, GRM32B7U3D: 1.8mm min.

C0G Characteristics

Part Number	Rated Voltage (V)	TC Code (Standard)	Capacitance (pF)	Length L (mm)	Width W (mm)	Thickness T (mm)	Electrode g min. (mm)	Electrode e (mm)
GRM21A5C2E100JW01D	DC250	C0G (EIA)	10 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E120JW01D	DC250	C0G (EIA)	12 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E150JW01D	DC250	C0G (EIA)	15 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E180JW01D	DC250	C0G (EIA)	18 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E220JW01D	DC250	C0G (EIA)	22 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E270JW01D	DC250	C0G (EIA)	27 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E330JW01D	DC250	C0G (EIA)	33 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E390JW01D	DC250	C0G (EIA)	39 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E470JW01D	DC250	C0G (EIA)	47 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E560JW01D	DC250	C0G (EIA)	56 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E680JW01D	DC250	C0G (EIA)	68 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E820JW01D	DC250	C0G (EIA)	82 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM21A5C2E101JW01D	DC250	C0G (EIA)	100 ±5%	2.0	1.25	1.0	0.7	0.3 min.
GRM31A5C2J100JW01D	DC630	C0G (EIA)	10 ±5%	3.2	1.6	1.0	1.5	0.3 min.
GRM31A5C2J120JW01D	DC630	C0G (EIA)	12 ±5%	3.2	1.6	1.0	1.5	0.3 min.
GRM31A5C2J150JW01D	DC630	C0G (EIA)	15 ±5%	3.2	1.6	1.0	1.5	0.3 min.
GRM31A5C2J180JW01D	DC630	C0G (EIA)	18 ±5%	3.2	1.6	1.0	1.5	0.3 min.
GRM31A5C2J220JW01D	DC630	C0G (EIA)	22 ±5%	3.2	1.6	1.0	1.5	0.3 min.
GRM31A5C2J270JW01D	DC630	C0G (EIA)	27 ±5%	3.2	1.6	1.0	1.5	0.3 min.
GRM31A5C2J330JW01D	DC630	C0G (EIA)	33 ±5%	3.2	1.6	1.0	1.5	0.3 min.
GRM31A5C2J390JW01D	DC630	C0G (EIA)	39 ±5%	3.2	1.6	1.0	1.5	0.3 min.
GRM31A5C2J470JW01D	DC630	C0G (EIA)	47 ±5%	3.2	1.6	1.0	1.5	0.3 min.
GRM31A5C2J560JW01D	DC630	C0G (EIA)	56 ±5%	3.2	1.6	1.0	1.5	0.3 min.

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