

# MURATA Automotive Capacitors



## GCJ SERIES MEDIUM VOLTAGE SOFT TERMINATION TYPE

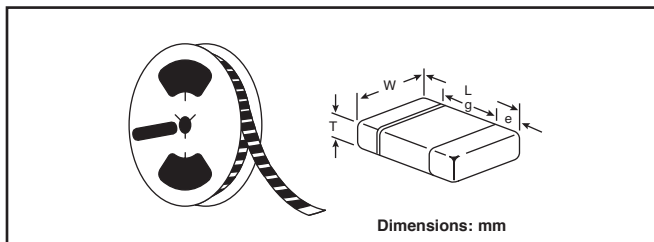
Committed to creating a low-carbon world, the automotive industry—as part of its responsibility to people and the planet—is rapidly computerizing and electrifying the vehicles produced to improve environmental compatibility. Murata's highly reliable electronic components, which take advantage of the heat resistance ceramics offer, help develop electronic control technology for vehicle systems and integrate electronics into onboard systems. Featuring low loss and highly reliable connection, our monolithic ceramic capacitors for high-power applications make it possible to downsize inverters and electrify ancillary units in electric and hybrid vehicles to achieve greater energy savings.

### Features:

- The GCJ series meet AEC-Q200 requirements.
- Improve the endurance against Board Bending Stress.
- Reduce the board bending stress by the conductive polymer termination.
- Use the GCJ31 type with flow or reflow soldering, and other types with reflow soldering only.

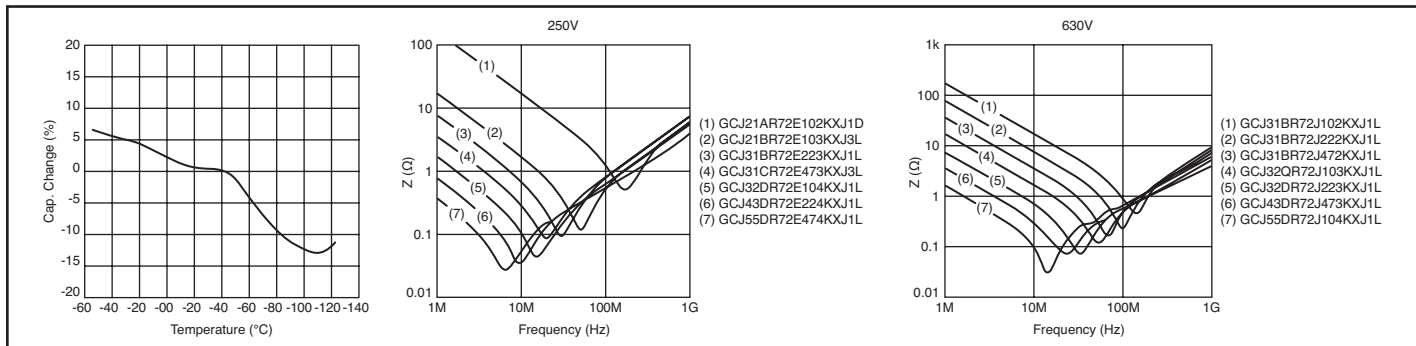
### Applications:

- Automotive electronic equipment (Power-train, safety equipment)



Dimensions: mm

Part Number	Dimensions: mm				
	L	W	T	e	g min.
GCJ21A	2.0±0.2	1.25±0.2	1.0+0,-0.3	0.3 min.	0.7
GCJ21B	2.0±0.2	1.25±0.2	1.25±0.2	0.3 min.	0.7
GCJ31B	3.2±0.2	1.6±0.2	1.25+0,-0.3	0.3 min.	1.2
GCJ31C	3.2±0.2	1.6±0.2	1.6±0.2	0.3 min.	1.2
GCJ32Q	3.2±0.3	2.5±0.2	1.5+0,-0.3	0.3 min.	1.2
GCJ32D	3.2±0.3	2.5±0.2	2.0+0,-0.3	0.3 min.	1.2
GCJ43Q	4.5±0.4	3.2±0.3	1.5+0,-0.3	0.3 min.	2.2
GCJ43D	4.5±0.4	3.2±0.3	2.0+0,-0.3	0.3 min.	2.2
GCJ55D	5.7±0.4	5.0±0.4	2.0+0,-0.3	0.3 min.	3.2



For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Murata Part No.	Value (µF)	Volt (DC)	Temperature Coefficient	Tolerance	Price Each				Reel Qty.	Price Each
						1	50	100	500		
<b>0805 Case Size</b>											
81-GCJ21AR72E102KX1D	GCJ21AR72E102KXJ1D	1,000	250	X7R	± 10%	.35	.17	.148	.085	4000	.042
81-GCJ21AR72E152KX1D	GCJ21AR72E152KXJ1D	1,500	250	X7R	± 10%	.27	.25	.159	.092	4000	.044
81-GCJ21AR72E222KX1D	GCJ21AR72E222KXJ1D	2,200	250	X7R	± 10%	.27	.25	.159	.092	4000	.044
81-GCJ21AR72E332KX1D	GCJ21AR72E332KXJ1D	3,300	250	X7R	± 10%	.27	.251	.159	.092	4000	.044
81-GCJ21AR72E472KX1D	GCJ21AR72E472KXJ1D	4,700	250	X7R	± 10%	.27	.25	.159	.092	4000	.044
81-GCJ21AR72E682KX1D	GCJ21AR72E682KXJ1D	6,800	250	X7R	± 10%	.27	.25	.159	.092	4000	.044
81-GCJ21BR72E103KX3L	GCJ21BR72E103KXJ3L	10,000	250	X7R	± 10%	.27	.25	.159	.092	3000	.044
<b>1206 Case Size</b>											
81-GCJ31BR72E153KX1L	GCJ31BR72E153KXJ1L	15,000	250	X7R	± 10%	.79	.654	.466	.268	3000	.129
81-GCJ31BR72E223KX1L	GCJ31BR72E223KXJ1L	22,000	250	X7R	± 10%	.79	.654	.466	.268	3000	.129
81-GCJ31CR72E333KX3L	GCJ31CR72E333KXJ3L	33,000	250	X7R	± 10%	.79	.65	.466	.268	2000	.129
81-GCJ31CR72E473KX3L	GCJ31CR72E473KXJ3L	47,000	250	X7R	± 10%	.79	.65	.465	.268	2000	.128
81-GCJ31BR72J102KX1L	GCJ31BR72J102KXJ1L	1,000	630	X7R	± 10%	.62	.517	.361	.208	3000	.10
81-GCJ31BR72J152KX1L	GCJ31BR72J152KXJ1L	1,500	630	X7R	± 10%	.64	.54	.377	.218	3000	.104
81-GCJ31BR72J222KX1L	GCJ31BR72J222KXJ1L	2,200	630	X7R	± 10%	.68	.585	.401	.231	3000	.111
81-GCJ31BR72J332KX1L	GCJ31BR72J332KXJ1L	3,300	630	X7R	± 10%	.64	.539	.377	.218	3000	.104
81-GCJ31BR72J472KX1L	GCJ31BR72J472KXJ1L	4,700	630	X7R	± 10%	.66	.54	.391	.225	3000	.108
<b>1210 Case Size</b>											
81-GCJ32QR72E683KX1L	GCJ32QR72E683KXJ1L	68,000	250	X7R	± 10%	1.10	.97	.652	.376	2000	.18
81-GCJ32DR72E104KX1L	GCJ32DR72E104KXJ1L	0.1 µF	250	X7R	± 10%	1.03	.896	.605	.349	1000	.171
81-GCJ32QR72J682KX1L	GCJ32QR72J682KXJ1L	6,800	630	X7R	± 10%	1.21	1.01	.712	.411	2000	.197
81-GCJ32QR72J103KX1L	GCJ32QR72J103KXJ1L	10,000	630	X7R	± 10%	1.21	1.01	.712	.411	2000	.197
81-GCJ32DR72J153KX1L	GCJ32DR72J153KXJ1L	15,000	630	X7R	± 10%	.36	.275	.256	.233	1000	.209
81-GCJ32DR72J223KX1L	GCJ32DR72J223KXJ1L	22,000	630	X7R	± 10%	.36	.28	.256	.233	1000	.209
<b>1812 Case Size</b>											
81-GCJ43QR72E154KX1L	GCJ43QR72E154KXJ1L	0.15 µF	250	X7R	± 10%	.71	.54	.495	.45	1000	.405
81-GCJ43DR72E224KX1L	GCJ43DR72E224KXJ1L	0.22 µF	250	X7R	± 10%	.71	.54	.495	.45	1000	.405
81-GCJ43DR72J333KX1L	GCJ43DR72J333KXJ1L	33,000	630	X7R	± 10%	.67	.517	.471	.428	1000	.386
81-GCJ43DR72J473KX1L	GCJ43DR72J473KXJ1L	47,000	630	X7R	± 10%	.67	.517	.471	.428	1000	.386
<b>2220 Case Size</b>											
81-GCJ55DR72E334KX1L	GCJ55DR72E334KXJ1L	0.33 µF	250	X7R	± 10%	4.82	4.20	2.85	1.64	1000	.809
81-GCJ55DR72E474KX1L	GCJ55DR72E474KXJ1L	0.47 µF	250	X7R	± 10%	4.90	4.29	2.88	1.66	1000	.819
81-GCJ55DR72J104KX1L	GCJ55DR72J104KXJ1L	0.1 µF	630	X7R	± 10%	4.90	4.29	2.88	1.66	1000	.819