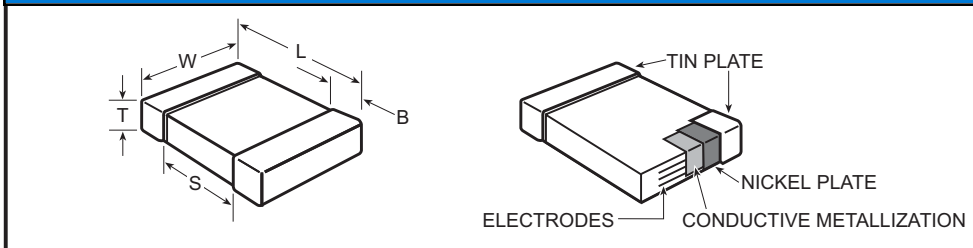


Surface Mount Ceramic Chip Capacitors – C0201 Series - C0G Dielectric

Outline Drawing



Dimensions – Millimeters (Inches)

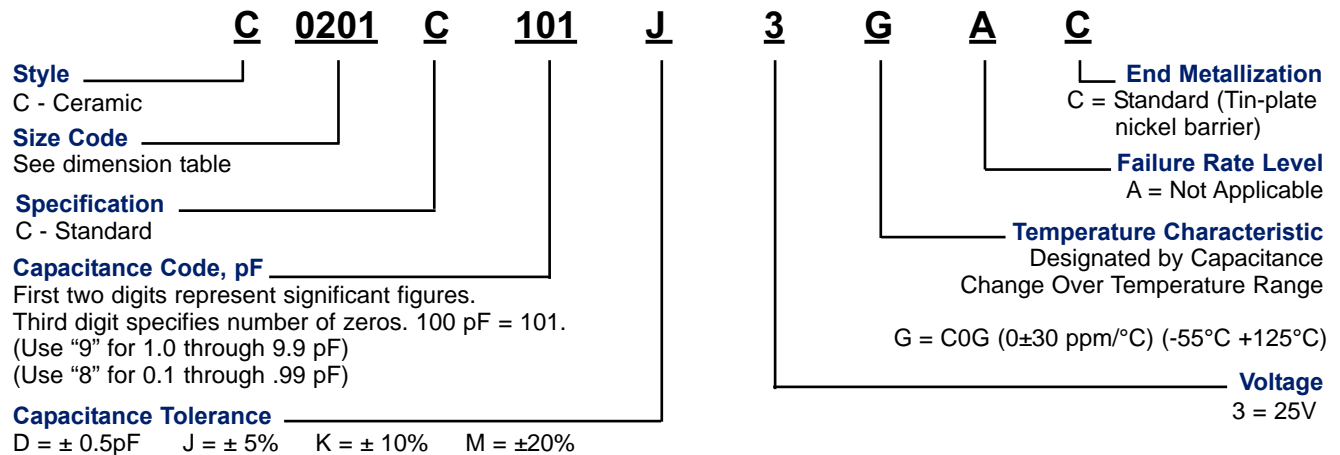
EIA Size Code	Metric Size Code	L Length	W Width	B Bandwidth	S Separation
0201	0603	0.6 (.024) ± 0.03 (.001)	0.3 (.012) ± 0.03 (.001)	0.15 (.006) ± 0.05 (.002)	-

See Capacitance Value Table below for thickness dimension.

Capacitance Value

Capacitance Value (pF)	KEMET Part Number	Voltage	Capacitance Tolerance	Thickness	Qty 7" Reel
10	C0201C100D3GAC	25	D	0.3 (.012) ± 0.03 (.001)	15,000
12	C0201C120J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000
15	C0201C150J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000
18	C0201C180J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000
22	C0201C220J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000
27	C0201C270J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000
33	C0201C330J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000
39	C0201C390J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000
47	C0201C470J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000
56	C0201C560J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000
68	C0201C680J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000
82	C0201C820J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000
100	C0201C101J3GAC	25	J,K,M	0.3 (.012) ± 0.03 (.001)	15,000

Capacitor Ordering Information



Electrical Parameters

As detailed in the KEMET Surface Mount Catalog F3102 for C0G, with following specific requirements based on room temperature (25°C) parameters:

- Operating Range: -55°C to +125°C, with no-bias capacitance shift limited to ± 30 ppm/°C over that range.
- Insulation Resistance (IR) measured after 2 minutes at rated voltage @ 25°C: Limit is 10,000 MΩ, minimum.
- Capacitance and Quality Factor (Q) measured at 1 MHz and 0.5 Vrms: DF limit is 0.1%
 $Q = (< 30 \text{ pF: } Q \geq 400 + 20C; > 30\text{pF: } Q \geq 1000)$
 C = Nominal Capacitance

Soldering Process

These components are suitable for reflow only. All parts incorporate the standard KEMET barrier layer of pure nickel, with an overplate of pure tin to provide excellent solderability as well as resistance to leaching.

Marking

These chips will be supplied unmarked.

In general, the information in the KEMET Surface Mount catalog F3102 applies to these capacitors. The information in this bulletin supplements that in the catalog.



F-9080B 07/06