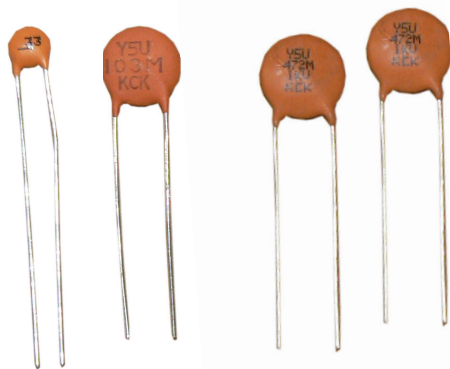


# Types GE, GH, GM, GP Disc Ceramic Capacitors

## General Purpose Capacitors



Type G general purpose disc ceramic capacitors are an ideal choice for low cost, small size and low to high DC voltage, general purpose, coupling, by-pass and filtering applications.

### Highlights

- Small size
- Conformally coated
- Radial leads
- General purpose
- Long leads



### Specifications

<b>Capacitance Range:</b>	5 pF to 22,000 pF
<b>Voltage Range:</b>	50, 100, 500, 1,000 Vdc
<b>Tolerance:</b>	See ratings tables
<b>Operating Temperature Range:</b>	-30 °C to +85 °C
<b>Insulation Resistance:</b>	10,000 MΩ minimum
<b>Dissipation Factor:</b>	2.5% max. @ 1 kHz; Y5U: 4% @ 1kHz
<b>Breakdown Voltage:</b>	2.5 x rated voltage for 5 seconds maximum
<b>Lead Length:</b>	1.0 inch minimum

Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

### Ratings

Cap (pF)	Catalog Part Number	Tol. (±)	Temp. Coef.	Size (Inches)				Size (Millimeters)				Cap (pF)	Catalog Part Number	Tol. (±)	Temp. Coef.	Size (Inches)				Size (Millimeters)																						
				D	T	S	d	D	T	S	d					D	T	S	d	D	T	S	d																			
<b>50 Vdc</b>												<b>500 Vdc</b>																														
5	GE050C *	.25pF	SL	.157	.118	.098	.016	4.0	3.0	2.5	.4	15	GM150K *	10%	SL	.236	.157	.252	.025	6.0	4.0	6.4	.6	100	GM101K	10%	Y5P	.236	.157	.252	.025	6.0	4.0	6.4	.6							
10	GE100D **	.5pF	SL	.157	.118	.098	.016	4.0	3.0	2.5	.4	330	GM331K *	10%	Y5P	.236	.157	.252	.025	6.0	4.0	6.4	.6	470	GM471K *	10%	Y5P	.236	.157	.252	.025	6.0	4.0	6.4	.6							
20	GE200K **	10%	SL	.157	.118	.098	.016	4.0	3.0	2.5	.4	680	GM681K **	10%	Y5P	.236	.157	.252	.025	6.0	4.0	6.4	.6	1,000	GM102K*	10%	Y5P	.236	.157	.252	.025	6.0	4.0	6.4	.6							
27	GE270K *	10%	SL	.157	.118	.098	.016	4.0	3.0	2.5	.4	1,000	GM102M *	20%	Y5U	.236	.157	.252	.025	6.0	4.0	6.4	.6	1,000	GM102Z **	-20+80	Y5U	.236	.157	.252	.025	6.0	4.0	6.4	.6							
33	GE330K	10%	SL	.157	.118	.098	.016	4.0	3.0	2.5	.4	2,200	GM222K *	10%	Y5P	.339	.157	.250	.025	8.6	4.0	6.4	.6	3,300	GM332M **	20%	Y5U	.291	.157	.252	.025	7.4	4.0	6.4	.6							
68	GE680K *	10%	SL	.157	.118	.098	.016	4.0	3.0	2.5	.4	4,700	GM472K *	10%	Y5P	.492	.157	.252	.025	12.5	4.0	6.4	.6	4,700	GM472M *	20%	Y5U	.339	.157	.252	.025	8.6	4.0	6.4	.6							
100	GE101K	10%	Y5P	.157	.118	.098	.016	4.0	3.0	2.5	.4	10,000	GM103K	10%	Y5P	.642	.157	.374	.025	16.3	4.0	9.5	.6	10,000	GM103M *	20%	Y5U	.492	.157	.252	.025	12.5	4.0	6.4	.6							
330	GE331K *	10%	Y5P	.157	.118	.098	.016	4.0	3.0	2.5	.4	10,000	GM103Z *	-20+80	Y5U	.492	.157	.252	.025	12.5	4.0	6.4	.6																			
470	GE471K *	10%	Y5P	.157	.118	.098	.016	4.0	3.0	2.5	.4	22,000	GM223Z*	-20+80	Y5U	.642	.157	.374	.025	16.3	4.0	9.5	.6																			
1,000	GE102K	10%	Y5P	.197	.118	.098	.016	5.0	3.0	2.5	.4																															
1,000	GE102M *	20%	Y5T	.157	.118	.098	.016	4.0	3.0	2.5	.4																															
1,500	GE152K **	10%	Y5P	.197	.118	.098	.016	5.0	3.0	2.5	.4																															
10,000	GE103K *	10%	Y5P	.472	.118	.197	.020	12.0	3.0	5.0	.5																															
<b>100 Vdc</b>																																										
2,200	GH222M *	20%	Y5U	.236	.118	.252	.025	6.0	3.0	6.4	.6																															

\* Available only until stock is depleted  
 \*\* Part number obsolete

# Types GE, GH, GM, GP Disc Ceramic Capacitors

## Ratings

## RoHS Compliant

Cap	Catalog Part Number	Tol.	Temp. Coef.	Size (Inches)				Size (Millimeters)			
(pF)		(±)		D	T	S	d	D	T	S	d
<b>1000 Vdc</b>											
27	GP427 *	10%	SL	.236	.177	.252	.025	6.0	4.5	6.4	.6
30	GP430 **	10%	SL	.236	.177	.252	.025	6.0	4.5	6.4	.6
47	GP447	10%	SL	.236	.177	.252	.025	6.0	4.5	6.4	.6
100	GP310	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6
220	GP322**	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6
270	GP327 *	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6
330	GP333 **	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6
<b>1000 Vdc</b>											
470	GP347 **	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6
560	GP356 *	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6
680	GP368 *	10%	Y5P	.236	.177	.252	.025	6.0	4.5	6.4	.6
1,000	GP210	10%	Y5P	.291	.177	.252	.025	7.4	4.5	6.4	.6
2,200	GP222	10%	Y5P	.374	.177	.252	.025	9.5	4.5	6.4	.6
4,700	GP247*	20%	Y5U	.433	.177	.252	.025	11.0	4.5	6.4	.6
22,000	GP122 **	20%	Y5U	.748	.177	.374	.025	19.0	4.5	9.5	.6

\* Available only until stock is depleted

\*\* Part number obsolete

### EIA TEMPERATURE COEFFICIENT CODES

A combination of characters designating capacitance drift over a temperature range.  
Example: Y5E could change ±4.7% over a temperature range of -30°C to +85°C.

Letter Symbol	Low Temp Requirement	Number Symbol	High Temp Requirement	Letter Symbol	Maximum Capacitance Change Over Temp Rating
X	-55°C	2	+45°C	A	±1.0%
Y	-30°C	4	+65°C	B	±1.5%
Z	+10°C	5	+85°C	C	±2.2%
		6	+105°C	D	±3.3%
		7	+125°C	E	±4.7%
				F	±7.5%
				P	±10.0%
				R	±15.0%
				S	±22.0%
				T	+22%, -33%
				U	+22%, -56%
				V	+22%, -82%

### TEMPERATURE COEFFICIENT CODES

Temperature Range	% Change Per 1°C
-55°C +125°C	
NPO-(COG)	+30ppm
N330	-330ppm
N470	-470ppm
N750	-750ppm
N1000	-1000ppm
N1500	-1500ppm
N2200	-2200ppm
N3300	-3300ppm
N4700	-4700ppm
N5600	-5600ppm
SL	-750, +100ppm
	±.075% Max

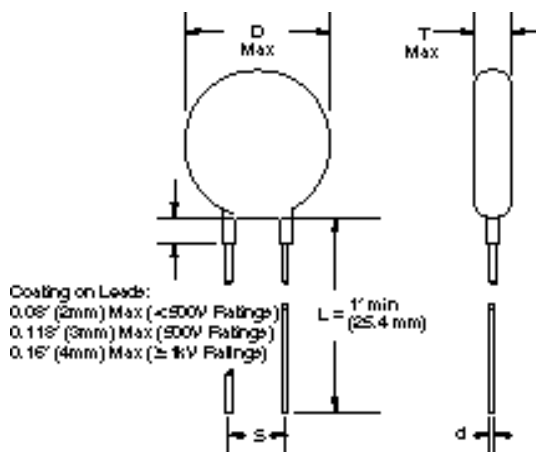
### Physical Specifications

Case: Conformal Coating

Lead material: Tinned copper wire. (Minimum lead content: 5%)

#### Tape and Reel Available upon Request

Leads are formed to .200 (5.0mm) lead spacing  
For D less than .315 (8.0mm) - Quantity/Reel = 2500 pcs  
For D .315 (8.0mm) to .472 (12.0mm) - Quantity/Reel = 2000 pcs  
Tape and Reel not available for D greater than .472 (12mm)



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Cornell Dubilier](#) manufacturer:*

Other Similar products are found below :

[474K400CS6](#) [107RZS016M](#) [CK06BX563K](#) [TDC226K035WSG-F](#) [CK05BX151K](#) [CK05BX472K](#) [TDC106K010NSF-F](#) [CK06BX223K](#)  
[CK06BX332K](#) [106MABA02KJS](#) [CK05BX182K](#) [CK05BX181K](#) [CK05BX101K](#) [205QPC250KA3A1LL](#) [255QPC250KA3A1L](#) [CK05BX560K](#)  
[CK05BX222K](#) [CK05BX270K](#) [CK05BX271K](#) [RJD2450ST1](#) [RJD3032](#) [RJD2430C1](#) [C0805C102K5RAC](#) [CK05BX822K](#) [ESRD100M06R](#)  
[CK05BX104K](#) [EDLSG105V5R5C](#) [5AE-2000](#) [M39018/04-2181M](#) [M39018/06-0158M](#) [715P15456MA3](#) [EWF05047](#) [EWF1A147](#)  
[MLP562M063EB0C](#) [MLS221M250EK0C](#) [MMW05W5-5.0MFD](#) [GM303M](#) [PSU4330](#) [PSU46030](#) [PVC16268](#) [PVC1628](#) [PVC2168](#) [124-](#)  
[138MFD](#) [DCMX262T400BF2B](#) [AFK686M63G24T-F](#) [MR10KT](#) [150472K630AA](#) [155PHC600K](#) [160104J160C](#) [MTC52L4](#)