

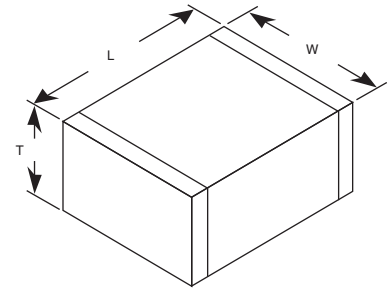
NOVACAP Ceramic SMD Capacitors



NOVACAP SMD CERAMIC CAPACITORS

(EIA COG) or NPO Dielectric is an ultra stable Class I dielectric. It has a linear temperature coefficient, low loss, stable electrical properties with time, voltage and frequency. Designed for surface mount application with nickel barrier termination suitable for solder wave, vapor phase or reflow solder board attachment. Also available with silver-palladium terminations for hybrid use with conductive epoxy. COG chips are are used in precision circuitry requiring Class I stability.

X7R Dielectric is a stable EIA Class II dielectric, with +/-15% temperature coefficient and predictable variation of electrical properties with time, temperature and voltage. These chips are designed for surface mount application with nickel barrier terminations suitable for solder wave, vapor phase or reflow solder board attachment. This product is also available in silver-palladium terminations for hybrid use with conductive epoxy. Class II X7R chips are used as decoupling, by-pass, filtering and transient voltage suppression elements.



DIMENSIONS: in. (mm)

Size	1825	2225
(L) Length	0.180 (4.57)	0.220 (5.59)
(W) Width	0.250 (6.35)	0.250 (6.35)



RoHS Compliant

For quantities of 4,000 and up, call for quote.

MOUSER STOCK NO.	Novacap Part Number	Dielectric	Value (pF)	Voltage	Tol. (±)	Thickness Max. (T)	Price Each			Reel Qty	Price Each
							1	10	100		
1825											
767-1825B102K202NT	1825B102K202NT	X7R	1000	2000	10%	0.080 (2.03)	1.75	1.50	1.38	500	1.13
767-1825N102K202NT	1825N102K202NT	COG	1000	2000	10%	0.080 (2.03)	2.56	2.19	2.01	500	1.64
767-1825B103K202NT	1825B103K202NT	X7R	0.01µF	2000	10%	0.080 (2.03)	2.70	2.31	2.12	500	1.73
767-1825B154M201NT	1825B154M201NT	X7R	0.15µF	200	20%	0.080 (2.03)	1.96	1.68	1.54	500	1.26
767-1825B104K201NT	1825B104K201NT	X7R	0.1µF	200	10%	0.080 (2.03)	1.79	1.53	1.40	500	1.15
767-1825B104K501CT	1825B104K501CT	X7R	0.1µF	500	10%	0.080 (2.03)	3.19	2.73	2.50	500	2.05
767-1825B474K201CT	1825B474K201CT	X7R	0.47µF	200	10%	0.080 (2.03)	4.24	3.63	3.33	500	2.72
767-1825B684K251NT	1825B684K251NT	X7R	0.68µF	250	10%	0.080 (2.03)	6.62	5.67	5.20	500	4.25
767-1825B105K101CT	1825B105K101CT	X7R	1µF	100	10%	0.080 (2.03)	6.83	5.85	5.36	500	4.39
767-1825B105K101NT	1825B105K101NT	X7R	1µF	100	10%	0.080 (2.03)	6.76	5.79	5.31	500	4.34
2225											
767-2225B102K302NT	2225B102K302NT	X7R	1000	3000	10%	0.080 (2.03)	1.75	1.50	1.38	500	1.13
767-2225B222K302NT	2225B222K302NT	X7R	2200	3000	10%	0.080 (2.03)	1.82	1.56	1.43	500	1.17
767-2225B103K202NT	2225B103K202NT	X7R	0.01µF	2000	10%	0.080 (2.03)	1.75	1.50	1.38	500	1.13
767-2225B104K102NT	2225B104K102NT	X7R	0.1µF	1000	10%	0.080 (2.03)	3.96	3.39	3.11	500	2.54
767-2225N104J500NT	2225N104J500NT	COG	0.1µF	50	5%	0.080 (2.03)	10.61	9.09	8.33	500	6.82
767-2225B474K251NT	2225B474K251NT	X7R	0.47µF	250	10%	0.080 (2.03)	3.12	2.67	2.45	500	2.00
767-2225B474K500NT	2225B474K500NT	X7R	0.47µF	50	10%	0.080 (2.03)	2.52	2.16	1.98	500	1.62
767-2225B105K101NT	2225B105K101NT	X7R	1µF	100	10%	0.080 (2.03)	4.38	3.75	3.44	500	2.81
767-2225B105K251NXT	2225B105K251NXT	X7R	1µF	250	10%	0.080 (2.03)	5.67	4.86	4.46	500	3.65

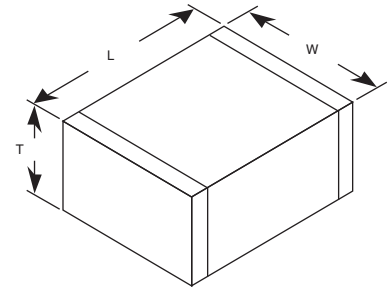
NOVACAP HIGH TEMPERATURE 200°C CAPACITORS

(EIA COG) or NPO Dielectric is an ultra stable Class I dielectric. It has a linear temperature coefficient, low loss, stable electrical properties with time, voltage and frequency. COG chips are used in precision circuitry requiring Class I stability.

X7R Dielectric is a stable EIA Class II dielectric, with +/-15% temperature coefficient and predictable variation of electrical properties with time, temperature and voltage. Class II X7R chips are used as decoupling, by-pass, filtering and transient voltage suppression elements.

Y5V/Z5U Dielectric is a general purpose EIA Class III dielectrics with +22% to -56% (Z5U) and +22% -82% (Y5V) temperature coefficients and very high capacitance density. The NOVACAP Z5U and Y5V formulations are very stable with time, typically aging less than 2% per decade. General purpose chips are used in by-pass and decoupling functions and other applications where capacitance change over the operating temperature range is not critical.

All Dielectrics are available in two nickel barrier termination systems suitable for solder wave, vapor phase or reflow solder board attachment. The "N" termination is a standard nickel barrier over fired on silver. The "C" termination is a nickel barrier over polymer terminated capacitors, which are able to accommodate a significantly increased degree of board flexure compared with standard terminated capacitors.



DIMENSIONS: in. (mm)

Size	0805	1206	1210
(L) Length	0.080 (2.03)	0.013 (3.18)	0.125 (3.18)
(W) Width	0.050 (1.27)	0.060 (1.52)	0.100 (2.54)

For quantities of 4,000 and up, call for quote.

MOUSER STOCK NO.	Novacap Part Number	Dielectric	Value (pF)	Voltage	Tol. (±)	Thickness Max. (T)	Price Each			Reel Qty	Price Each
							1	10	100		
0805											
767-0805D100F251PHT	0805D100F251PHT	COG	10	250	1%	0.054 (1.37)	2.02	1.73	1.59	4000	.87
767-0805D100J250PHT	0805D100J250PHT	COG	10	25	5%	0.054 (1.37)	1.26	1.08	.99	2000	.72
767-0805D120F251PHT	0805D120F251PHT	COG	12	250	1%	0.054 (1.37)	2.02	1.73	1.59	4000	.87
767-0805D180F251PHT	0805D180F251PHT	COG	18	250	1%	0.054 (1.37)	2.05	1.76	1.61	4000	.88
767-0805D220F251PHT	0805D220F251PHT	COG	22	250	1%	0.054 (1.37)	2.05	1.76	1.61	4000	.88
767-0805D330F251PHT	0805D330F251PHT	COG	33	250	1%	0.054 (1.37)	2.11	1.81	1.66	4000	.91
767-0805D330J250PHT	0805D330J250PHT	COG	33	25	5%	0.054 (1.37)	1.26	1.08	.99	2000	.72
767-0805D102F250PHT	0805D102F250PHT	COG	1000	25	1%	0.054 (1.37)	3.61	3.09	2.83	3000	1.65
767-0805E222K500PHT	0805E222K500PHT	Class II	2200	50	10%	0.054 (1.37)	1.23	1.05	.96	2000	.70
767-0805E103K250PHT	0805E103K250PHT	Class II	0.01µF	25	10%	0.054 (1.37)	1.23	1.05	.96	2000	.70
1206											
767-1206E103K500PHT	1206E103K500PHT	Class II	0.01µF	50	10%	0.064 (1.63)	1.03	.89	.81	4000	.44
767-1206E104K500PHT	1206E104K500PHT	Class II	0.1µF	50	10%	0.064 (1.63)	2.63	2.25	2.06	2000	1.50
767-1206E224J250PHT	1206E224J250PHT	Class II	0.22µF	25	5%	0.064 (1.63)	2.87	2.46	2.25	2000	1.31
767-1206E224K250PHT	1206E224K250PHT	Class II	0.22µF	25	10%	0.064 (1.63)	2.70	2.31	2.12	2000	1.54
1210											
767-1210E223K251PHT	1210E223K251PHT	Class II	0.022µF	250	10%	0.064 (1.63)	2.63	2.25	2.06	4000	1.41
767-1210E104K500PXHT	1210E104K500PXHT	Class II	0.1µF	50	10%	0.064 (1.63)	3.10	2.66	2.43	3000	1.66