

# NOVACAP Ceramic SMD Capacitors

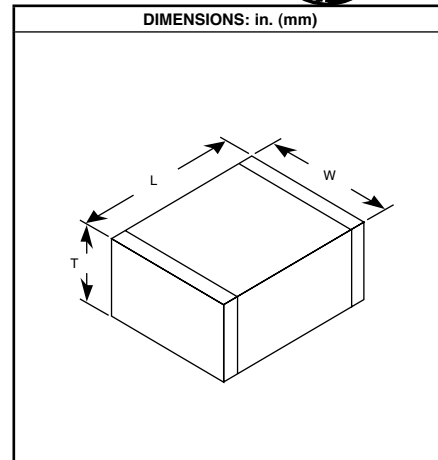


RoHS Compliant This product is RoHS compliant.

## NOVACAP SMD CERAMIC CAPACITORS

(EIA C0G) 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. C0G 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.



Size	1206	1210	1515	1808	1812	1825	2225
(L) Length	0.125 (3.18)	0.125 (3.18)	0.150 (3.81)	0.180 (4.57)	0.180 (4.57)	0.180 (4.57)	0.220 (5.59)
(W) Width	0.060 (1.52)	0.100 (2.54)	0.150 (3.81)	0.080 (2.03)	0.125 (3.18)	0.250 (6.35)	0.250 (6.35)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Novacap Part No.	Dielectric	Value (pF)	Voltage	Tol. (%)	Thickness Max. (T)	Price Each			Reel Qty	Price Each
							1	10	100		
<b>Style 1206</b>											
767-1206B471K202NT	1206B471K202NT	X7R	470	2000	10%	0.064 (1.63)	.88	.75	.69	500	.56
767-1206B102K202NT	1206B102K202NT	X7R	1000	2000	10%	0.064 (1.63)	.26	.229	.21	500	.173
767-1206B103M501CT	1206B103M501CT	X7R	0.01µF	500	20%	0.064 (1.63)	.88	.75	.69	500	.56
<b>Style 1210</b>											
767-1210B471K202NT	1210B471K202NT	X7R	470	2000	10%	0.065 (1.65)	.91	.78	.72	500	.59
767-1210B102K202NT	1210B102K202NT	X7R	1000	2000	10%	0.065 (1.65)	.88	.75	.69	500	.56
767-1210N102J501NT	1210N102J501NT	C0G	1000	500	5%	0.065 (1.65)	.88	.75	.69	500	.56
767-1210B472K152NT	1210B472K152NT	X7R	4700	1500	10%	0.065 (1.65)	.88	.75	.69	500	.56
767-1210N103F101NT	1210N103F101NT	C0G	0.01µF	100	1%	0.065 (1.65)	3.33	2.85	2.61	500	2.14
767-1210B223K501NT	1210B223K501NT	X7R	0.022µF	500	10%	0.065 (1.65)	.88	.75	.69	500	.56
767-1210B473K251CT	1210B473K251CT	X7R	0.047µF	250	10%	0.065 (1.65)	.88	.75	.69	500	.56
767-1210B473K501CT	1210B473K501CT	X7R	0.047µF	500	10%	0.065 (1.65)	.91	.78	.72	500	.59
767-1210B473K501NT	1210B473K501NT	X7R	0.047µF	500	10%	0.065 (1.65)	2.24	1.91	1.75	500	1.42
767-1210B104K201NT	1210B104K201NT	X7R	0.1µF	200	10%	0.065 (1.65)	.88	.75	.69	500	.56
<b>Style 1808</b>											
767-1808B151K302NT	1808B151K302NT	X7R	150	3000	10%	0.065 (1.65)	.88	.75	.69	500	.56
767-1808B221K302NT	1808B221K302NT	X7R	220	3000	10%	0.065 (1.65)	.88	.75	.69	500	.56
767-1808B102K202NT	1808B102K202NT	X7R	1000	2000	10%	0.065 (1.65)	.88	.75	.69	500	.56
767-1808B152K202NT	1808B152K202NT	X7R	1500	2000	10%	0.065 (1.65)	.88	.75	.69	500	.56
767-1808B222M202NT	1808B222M202NT	X7R	2200	2000	20%	0.065 (1.65)	.88	.75	.69	500	.56
767-1808B103K102NT	1808B103K102NT	X7R	0.01µF	1000	10%	0.065 (1.65)	.88	.75	.69	500	.56
<b>Style 1812</b>											
767-1812N151J302NT	1812N151J302NT	C0G	150	3000	5%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812N221J302NT	1812N221J302NT	C0G	220	3000	5%	0.065 (1.55)	5.35	4.59	4.22	500	3.45
767-1812B471K302NT	1812B471K302NT	X7R	470	3000	10%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812B102K202NT	1812B102K202NT	X7R	1000	2000	10%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812B102K302NT	1812B102K302NT	X7R	1000	3000	10%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812B222K202CT	1812B222K202CT	X7R	2200	2000	10%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812B222K202NT	1812B222K202NT	X7R	2200	2000	10%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812N222M202NXT	1812N222M202NXT	C0G	2200	2000	20%	0.065 (1.55)	2.37	2.03	1.86	500	1.52
767-1812B472K202NT	1812B472K202NT	X7R	4700	2000	10%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812N103J201NT	1812N103J201NT	C0G	0.01µF	100	5%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812B223K102NT	1812B223K102NT	X7R	0.022µF	2000	10%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812B223K501CT	1812B223K501CT	X7R	0.022µF	500	10%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812B273K102NT	1812B273K102NT	X7R	0.027µF	1000	10%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812B473K102NXT	1812B473K102NXT	X7R	0.047µF	1000	10%	0.065 (1.55)	2.38	2.04	1.87	500	1.53
767-1812B104K201NT	1812B104K201NT	X7R	0.1µF	200	10%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812B104K501NT	1812B104K501NT	X7R	0.1µF	500	10%	0.065 (1.55)	2.35	2.01	1.84	500	1.51
767-1812B224K251NT	1812B224K251NT	X7R	0.22µF	250	10%	0.065 (1.55)	2.00	1.71	1.57	500	1.28
767-1812B334K251CXT	1812B334K251CXT	X7R	0.33µF	250	10%	0.065 (1.55)	2.98	2.55	2.34	500	1.91
767-1812B474K101NT	1812B474K101NT	X7R	0.47µF	100	10%	0.065 (1.55)	2.49	2.13	1.95	500	1.60
767-1812Z105M500CT	1812Z105M500CT	Z5U	1µF	50	20%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
767-1812B105K500NXT	1812B105K500NXT	X7R	1µF	50	10%	0.065 (1.55)	3.85	3.30	3.03	500	2.48
767-1812Y475M500CT	1812Y475M500CT	Y5V	4.7µF	50	20%	0.065 (1.55)	1.75	1.50	1.38	500	1.13
<b>Style 1825</b>											
767-1825B102K202NT	1825B102K202NT	X7R	1000	2000	10%	0.080 (2.03)	1.75	1.50	1.38	500	1.13
767-1825N102K202NT	1825N102K202NT	C0G	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
767-1825B105K101CT	1825B105K101CT	X7R	1µF	100	10%	0.080 (2.03)	6.83	5.85	5.36	500	4.39
<b>Style 2225</b>											
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)	2.04	1.75	1.60	500	1.31
767-2225B103K202NT	2225B103K202NT	X7R	0.01µF	2000	10%	0.080 (2.03)	2.01	1.72	1.60	500	1.32
767-2225B104K102NT	2225B104K102NT	X7R	0.1µF	1000	10%	0.080 (2.03)	4.47	3.88	3.58	500	2.85
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