



SMT - BX DIELECTRIC



BX characteristics are identical to X7R dielectric, with the added restriction that the Temperature-Voltage Coefficient (TVC) is not to exceed $-25\% \pm C$ at rated voltage, over the operating temperature range (-55 C to

125 C). NOVACAP manufactures chips using dielectrics with minimal voltage coefficient and layer thickness design to meet BX requirements. BX dielectric code is X.

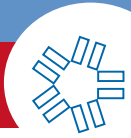


➔ CAPACITANCE & VOLTAGE SELECTION FOR POPULAR CHIP SIZES

3 digit code: two significant digits, followed by number of zeros eg: 473 = 47,000 pF

SIZE	0402	0504	0603	0805	1005	1206	1210	1808	1812	1825	2221	2225
Min Cap	121	121	121	121	121	121	121	221	471	821	821	821
16V	682	393	273	124	184	334	684	824	125	185	185	225
25V	562	273	183	104	124	274	564	684	105	185	185	185
50V	222	123	822	393	563	124	224	274	474	125	125	155
100V	471	472	272	123	183	393	683	823	124	334	334	394
200V	151	122	681	272	392	681	183	183	333	823	823	104
250V	121	681	331	222	332	682	123	153	273	683	683	823
300V				152	222	392	103	103	183	473	473	563
400V				681	102	182	472	562	103	273	273	273
500V				561	102	182	392	392	682	183	183	223

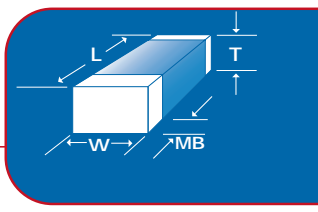
MAX CAP & VOLTAGE



PRODUCT OFFERING



See chart for standard EIA case sizes and available capacitance and voltage ratings. Special sizes, thickness and other voltage ratings are available, see other NOVACAP product offerings. High reliability testing is available per MIL-PRF-55681, MIL-PRF-123, or to customer SCD. Please consult the factory with your requirements. NOVACAP has complete testing facilities at your disposal.



DIMENSIONS +/- INCHES (MM)

SIZE	0402	0504	0603	0805	1005	1206	1210	1808	1812	1825	2221	2225
LENGTH L	.040 (1.02)	.050 (1.27)	.060 (1.52)	.080 (2.03)	.100 (2.54)	.125 (3.18)	.125 (3.18)	.180 (4.57)	.180 (4.57)	.180 (4.57)	.220 (5.59)	.220 (5.59)
WIDTH W	.020 (.508)	.040 (1.02)	.030 (.760)	.050 (1.27)	.050 (1.27)	.060 (1.52)	.100 (2.54)	.080 (2.03)	.120 (3.05)	.250 (6.35)	.210 (5.33)	.250 (6.35)
T MAX.	.024 (.610)	.044 (1.12)	.035 (.889)	.054 (1.37)	.054 (1.37)	.064 (1.63)	.065 (1.65)	.065 (1.65)	.065 (1.65)	.080 (2.03)	.080 (2.03)	.080 (2.03)
MB	.010 (.254)	.014 (.355)	.014 (.355)	.020 (.508)	.020 (.508)	.020 (.508)	.020 (.508)	.024 (.610)	.024 (.610)	.024 (.610)	.030 (.760)	.030 (.760)

TOLERANCES +/- INCHES (MM)

LENGTH	.004 (.102)	.006 (.152)	.006 (.152)	.008 (.203)	.008 (.203)	.008 (.203)	.008 (.203)	.012 (.305)	.012 (.305)	.012 (.305)	.015 (.380)	.015 (.380)
WIDTH	.004 (.102)	.006 (.152)	.006 (.152)	.008 (.203)	.008 (.203)	.008 (.203)	.008 (.203)	.008 (.203)	.008 (.203)	.015 (.380)	.015 (.380)	.015 (.380)
MB	.006 (.152)	.006 (.152)	.006 (.152)	.010 (.254)	.010 (.254)	.010 (.254)	.010 (.254)	.014 (.355)	.014 (.355)	.014 (.355)	.015 (.380)	.015 (.380)

HOW TO ORDER

1206	X	104	J	250	N	X	T	M
SIZE See Chart	DIELECTRIC X = BX	CAPACITANCE Value in Picofarads Two significant figures, followed by number of zeros: 104 = 100,000pF	TOLERANCE J = +/- 5.0% K = +/- 10% M = +/- 20%	VOLTAGE-VDCW Two significant figures, followed by number of zeros: 250 = 25V	TERMINATION N = Nickel Barrier P = Ag-Pd	THICKNESS OPTION X = Non standard thickness. Specify in Mils if Non EIA thickness is required.	PACKING OPTION T = Reeled	MARKING OPTION M = Marked (See Marking Specifications)