



THIN PROFILE CAPACITORS



Popular EIA size chips are offered in very thin profile configuration with COG, X7R, Z5U and Y5V dielectric characteristics rated at 5 Vdc to 50 Vdc, for use as decoupling capacitors under other circuit elements, or for low profile RFID and Smart Card circuitry.

MAX CAPACITANCE AT DISCRETE THICKNESS

3 digit code: two significant digits, followed by number of zeros

eg: 472= 4700 pF. R denotes decimal, eg. 2R7 = 2.7 pF

SIZE	0805	1206	1210
LENGTH L	.080 (2.03)	.125 (3.18)	.125 (3.18)
WIDTH W	.050 (1.27)	.060 (1.52)	.100 (2.54)
MB	.020 (.508)	.020 (.508)	.020 (.508)

MAXIMUM THICKNESS

INCHES	.012	.015	.018	.015	.018	.020	.015	.018	.020
MM	.305	.381	.457	.381	.457	.508	.381	.457	.508

COG DIELECTRIC

Min Cap	0R1	0R1	0R1	0R5	0R5	0R5	3R0	3R0	3R0
5V	122	182	222	472	562	682	822	103	123
16V	821	122	152	332	392	472	392	682	822
25V	681	102	122	272	332	392	472	562	682
50V	471	821	102	182	272	272	332	472	562

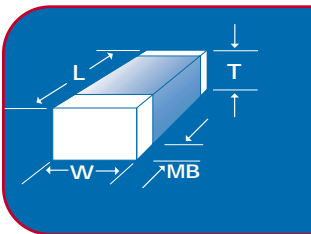
X7R DIELECTRIC

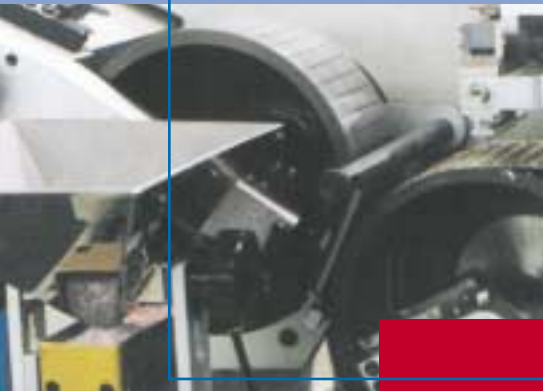
Min Cap	121	121	121	121	121	121	121	121	121
5V	223	273	473	683	823	104	124	184	184
16V	223	273	393	683	823	104	124	154	184
25V	153	223	273	563	683	823	104	124	154
50V	123	183	223	333	563	683	823	104	124

MAX CAP @ VOLTAGE

DIMENSIONAL TOLERANCES +/- INCHES (MM)

LENGTH L	.008 (.203)	.008 (.203)	.008 (.203)
WIDTH W	.008 (.203)	.008 (.203)	.008 (.203)
MB	.010 (.254)	.010 (.254)	.010 (.254)





MAX CAPACITANCE AT DISCRETE THICKNESS
(continued)

SIZE	0805			1206			1210		
LENGTH L	.080 (2.03)			.125 (3.18)			.125 (3.18)		
WIDTH W	.050 (1.27)			.060 (1.52)			.100 (2.54)		
MB	.020 (.508)			.020 (.508)			.020 (.508)		
MAXIMUM THICKNESS									
INCHES	.012	.015	.018	.015	.018	.020	.015	.018	.020
MM	.305	.381	.457	.381	.457	.508	.381	.457	.508

MAX CAP @ VOLTAGE

Z5U DIELECTRIC										
Min Cap	391	391	391	561	561	561	561	561	561	561
5V	124	154	254	274	394	394	564	684	824	
16V	124	154	254	274	394	394	564	684	824	
25V	683	104	124	224	274	334	474	564	684	
50V	473	683	823	154	184	224	334	394	474	

Y5V DIELECTRIC										
Min Cap	121	121	121	121	121	121	121	121	121	121
5V	154	184	274	334	474	474	684	824	105	
16V	154	184	274	334	474	474	684	824	105	
25V	823	124	154	274	334	394	564	684	824	
50V	563	823	104	184	224	274	394	474	564	



HOW TO ORDER

0805	Z	104	M	160	N	X	T
SIZE See Chart	DIELECTRIC N = COG B = X7R Z = Z5U Y = Y5V	CAPACITANCE Value in Picofarads Two significant figures, followed by number of zeros: 104 = 100,000pF	TOLERANCE J = +/- 5% K = +/- 10% COG, X7R Only M = +/- 20% Z = +80% - 20% P = +100% - 0%	VOLTAGE-VDCW Two significant figures, followed by number of zeros: 160 = 16V	TERMINATION N = Nickel Barrier V = Non solderable Silver P = Ag-Pd COG, X7R Only	THICKNESS OPTION X = Non standard thickness. Specify in Mils if Non EIA thickness is required.	PACKING OPTION T = Reeled