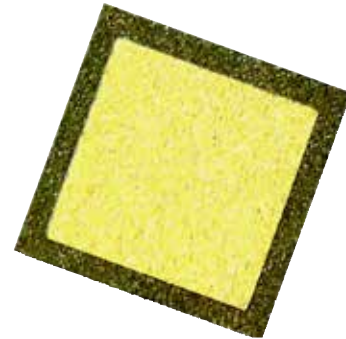


CSM Series – Margin Capacitors

Margin caps have the topside electrode withdrawn from the edges in order to increase the distance between electrodes and dramatically decrease the possibilities of shorting when epoxy die-mounting. This style is also widely used for optical recognition-based assembly.

Increased margin sizes and special terminations are available for high power LC filter applications.



DESCRIPTION

- Margin capacitors can be customized to any sized square or rectangle

CSM STANDARD CAPACITANCE TOLERANCE CODES

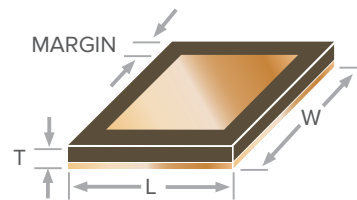
Class I Dielectrics: C-20 thru C-NR		Class II Dielectrics: C-80 thru C-400	
Tolerance	Code	Tolerance	Code
±50pF	D	-20% thru +80%	Z
±25pF	C	Guaranteed Min. Value	GMV
±10pF	B	± 20%	M
±05pF	A	± 15%	L
±01pF	P	± 10%	K
± 20%	M	± 5%	J
± 15%	L		
± 10%	K		
± 5%	J		
± 3%	H		
± 2%	G		

For H and G tolerances, part thickness has to be >10mils. Consult factory for H and G tolerance parts

CSM STANDARD DIMENSIONAL TOLERANCES

Length & Width	L or W Tolerance	Margin Nominal	Thickness
≤.010	± .002	.001	± .0015
.011 thru .029	± .002	.002	
≥.030	± .003	.002	
All dimensions given are inches			

CSM CHIP DIMENSIONS



CSM ELECTRODE CONFIGURATION

Two electrodes



ORDERING INFORMATION – CSM SERIES – MARGIN CAPACITORS

CSM Style	BE Dielectric Type	10 x 10 Length x Width (mils)	x 5 Thickness (mils)	G Metalization	2R9 Capacitance (pF)	M Capacitance Tolerance
CSM	See Class I and Class II tables (page 29)	See CSM Chip Dimensions (at right)	See CSM Selection Chart (at right)	G = Gold	First two digits represent significant figures and the last, the number of zeros to follow. When required, the letter "R" is used as a decimal point and the succeeding digits represent significant figures only. e.g.: 101 = 100pF, 1R6 = 1.6pF	See CSM Standard Capacitance Tolerance Codes (above)

Example shown: Complex Series CSM, dielectric type C-BE, .010" x .010" x .005", gold, 2.9pF, ±20% tolerance

Please contact factory to request free samples.

CSM Series – Margin Capacitors

CSM SELECTION CHART

Note: Selection Chart is for guidance only. All Compex parts are built to specific customer requirements.

Capacitor Size in Mils

MATERIAL	10x10			12x12			15x15			20x20			25x25			30x30			35x35			40x40			50x50		
	MIN.	MAX.	Tolerance	MIN.	MAX.	Tolerance	MIN.	MAX.	Tolerance	MIN.	MAX.	Tolerance	MIN.	MAX.	Tolerance	MIN.	MAX.	Tolerance	MIN.	MAX.	Tolerance	MIN.	MAX.	Tolerance	MIN.	MAX.	Tolerance
C-20	0.01	0.02		0.02	0.03		0.03	0.04		0.05	0.07		0.07	0.11		0.11	0.17		0.15	0.23		0.20	0.22		0.30	0.35	
C-28	0.03	0.04	P	0.04	0.06		0.06	0.09		0.11	0.16		0.17	0.26		0.24	0.38		0.33	0.54		0.44	0.5		0.69	0.8	
C-30	0.03	0.05	P	0.04	0.07	P	0.06	0.09	P	0.12	0.18	A	0.18	0.29	A	0.26	0.43	A	0.37	0.59	B	0.48	0.55	B	0.76	0.9	B
C-35	0.03	0.05	P	0.04	0.07	P	0.07	0.09	P	0.12	0.18	A	0.18	0.3	A	0.28	0.43	A	0.38	0.6	B	0.49	0.57	B	0.77	0.9	B
C-37	0.04	0.06	A	0.06	0.09	P	0.08	0.12	A	0.15	0.23	A	0.24	0.38	A	0.36	0.56	B	0.48	0.77	B	0.63	0.73	B	0.99	1.2	B
C-40	0.06	0.1	A	0.09	0.14	A	0.14	0.2	A	0.24	0.37	A	0.38	0.6	B	0.56	0.9	B	0.76	1.2	C	1	1.2	C	1.6	1.9	C
C-50	0.13	0.2	A	0.18	0.29	A	0.26	0.39	A	0.48	0.74	B	0.77	1.2	B	1.12	1.8	C	1.5	2.5	C	2	2.3	C	3.1	3.7	D
C-55	0.16	0.25	A	0.23	0.37	A	0.33	0.48	A	0.61	0.9	B	0.95	1.5	C	1.4	2.2	C	2	3.1	C	2.5	2.9	C	3.9	4.6	D
C-58	0.29	0.46	A	0.43	0.68	B	0.62	0.9	B	1.13	1.7	C	1.8	2.8	C	2.6	4.1	D	3.6	5.7	D	4.7	5.4	D	7.4	9	K
C-NR	0.47	0.74	B	0.68	1.1	B	1	1.4	C	1.8	2.8	C	2.9	4.5	D	4.1	6.6	K	5.8	9	K	7.5	9	K	12	14	K
C-80	0.94	1.4	K	1.4	2.2	K	2	2.9	K	3.7	5.5	K	5.8	9	K	8.4	14	K	12	19	K	15	17	K	24	27	K
C-BD	2.5	4	K	3.7	5.8	K	5.3	7.8	K	9.7	14	K	15	24	K	22	36	K	31	49	K	40	47	K	63	73	K
C-BE	3.9	6.2	K	5.6	9	K	8.3	12	K	15	23	K	24	37	K	35	55	K	48	77	K	63	72	K	99	110	K
C-100	6.9	11	K	10	16	K	15	21	K	26	41	K	43	66	K	61	90	K	84	140	K	110	130	K	170	200	K
C-120	10.9	17	K	16	26	K	23	34	K	43	65	K	67	100	K	98	150	K	140	210	K	170	200	K	280	320	K
C-BN	14	22	K	20	32	K	29	43	K	53	82	K	84	140	K	130	200	K	170	270	K	220	260	K	350	400	K
C-140	35	54	M	49	80	M	72	110	M	140	200	M	210	330	M	310	480	M	430	670	M	550	640	M	860	1000	M
C-200	78	130	M	114	180	M	160	250	M	300	460	M	480	750	M	700	1100	M	950	1500	M	1300	1400	M	2000	2300	M
C-400	109	170	M	160	260	M	230	340	M	430	650	M	670	1000	M	980	1500	M	1400	2100	M	1700	2000	M	2800	3200	M

