

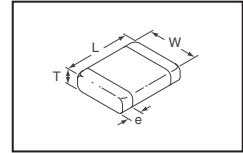
Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Yageo Part No.
						10	100	500		Qty.	Pricing	
0805	X7R	50/63	15000pF	±20%	311-1240-1-ND	7.72	46.86	154.35	311-1240-2-ND	4,000	165.00/M	CX0805MRX7R9BB153
		50/63	18000pF	±20%	311-1241-1-ND	7.72	46.86	154.35	311-1241-2-ND	4,000	165.00/M	CX0805MRX7R9BB183
		25	22000pF	±20%	311-1242-1-ND	7.72	46.86	154.35	311-1242-2-ND	4,000	165.00/M	CX0805MRX7R8BB223
		25	39000pF	±20%	311-1243-1-ND	7.72	46.86	154.35	311-1243-2-ND	4,000	165.00/M	CX0805MRX7R8BB393
		16	47000pF	±20%	311-1244-1-ND	7.72	46.86	154.35	311-1244-2-ND	4,000	165.00/M	CX0805MRX7R7BB473
		16	.1µF	±20%	311-1245-1-ND	8.23	49.98	164.64	311-1245-2-ND	4,000	176.00/M	CX0805MRX7R7BB104
1206	X7R	50/63	.1µF	±20%	311-1261-1-ND	10.29	62.48	205.80	311-1261-2-ND	2,500	221.00/M	CX1206MKX7R9BB104
		16	.22µF	±20%	311-1252-1-ND	7.20	43.73	144.06	311-1252-2-ND	2,500	154.00/M	CX1206MKX7R7BB224
		10	.47µF	±20%	311-1251-1-ND	8.23	49.98	164.64	311-1251-2-ND	2,500	176.00/M	CX1206MKX7R6BB474
1210	X7R	50/63	.1µF	±20%	311-1262-1-ND	10.29	62.48	205.80	311-1262-2-ND	2,500	221.00/M	CX1210MKX7R9BB104
		16	1µF	±20%	311-1253-1-ND	9.26	56.23	185.22	311-1253-2-ND	2,500	198.00/M	CX1210MKX7R7BB105



Multilayer Ceramic Chip Capacitors

Features: • Characteristic of class 2 dielectric • Highest possible capacitance to rated voltage ratio
 • Built to AEC-Q200 standard **Application:** • Coupling and bypass filters **Termination:** • Nickel barrier
Specifications: • Climatic category: 55/125/56 • Insulation resistance @ 25°C >10¹⁰ **Operating Temperature Range:** -55 ~ 125°C

Case Size	Dimensions - mm			
	L	W	e	T
0402	1.00	0.50	.1 - .4	0.5
1206	3.20	1.60	.25 - .75	1.80 max.



Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Epcos Part No.
						10	100	1,000		Qty.	Pricing	
0402	X7R	16	.10µF	10%	495-3265-1-ND	1.3	.98	6.75	495-3265-2-ND	10,000	5.00/M	B37921C9104K60
1206	X5R	16	4.7µF	10%	495-3261-1-ND	1.79	13.65	94.50	495-3261-2-ND	2,000	63.00/M	B37572C9475K062



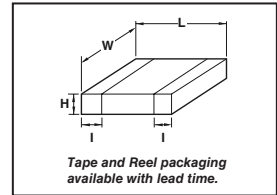
CORNELL DUBILIER

MC Series Multilayer SMT Mica RF Capacitors

Type MC capacitors are the answer for high frequency public-service and military radio communication, flight radio and cable television. The natural mica dielectric retains its high-Q to many megahertz, so higher frequency applications are limited by the circuit inductance-not the type MC capacitor. FR4 compatibility and natural robustness offer freedom from the thermal cracking found with other RF capacitors.

Features: • Ultra stable-no change in capacitance with frequency, voltage or temperature • Free from thermal cracking • High RF Current dV/dt 20,000 V/us • Very high Q • Very low ESL and ESR • Wave Solderable
Specifications: • Temperature Range: -55°C ~ 125°C with no voltage derating
Applications: • MRI RF coils • RF Instruments and Communications • 2-way mobile radio • Tuned circuits • CATV • Plasma generators for medical and IC manufacturing

Case Type	Dimensions: Inch (mm)			
	L	W	H	I (Max.)
0805	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (9)
1210	.126 (3.2)	.098 (2.5)	.079 (2.0)	.043 (1.1)
1812	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)
2220	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)



Size Code	Vdc	Capacitance	Tolerance	Digi-Key Part No.	Price Each			Cornell Dubilier Part No.		
					1	10	100			
0805	100	1.0pF	±0.5%	338-1339-ND	1.09	.93	.78	MC08CA100D-F		
		2.0pF	±0.5%	338-1098-ND	1.09	.93	.78	MC08CA200D-F		
		3.0pF	±0.5%	338-1097-ND	1.09	.93	.78	MC08CA300D-F		
		5.0pF	±0.5%	338-1098-ND	1.09	.93	.78	MC08CA500D-F		
		10pF	±0.5%	338-1099-ND	1.09	.93	.78	MC08CA100D-F		
		15pF	±5%	338-1100-ND	1.09	.93	.78	MC08EA150J-F		
		20pF	±5%	338-1101-ND	1.09	.93	.78	MC08EA200J-F		
		22pF	±5%	338-1102-ND	1.09	.93	.78	MC08EA220J-F		
		27pF	±5%	338-1103-ND	1.09	.93	.78	MC08EA270J-F		
		30pF	±5%	338-1340-ND	1.09	.93	.78	MC08EA300J-F		
500	500	5.0pF	±0.5%	338-1104-ND	1.37	1.17	.98	MC12CD050D-F		
		10pF	±0.5%	338-1105-ND	1.37	1.17	.98	MC12CD100D-F		
		15pF	±5%	338-1106-ND	1.40	1.20	1.00	MC12ED150J-F		
		18pF	±5%	338-1107-ND	1.40	1.20	1.00	MC12ED180J-F		
		30pF	±5%	338-1344-ND	1.40	1.20	1.00	MC12ED300J-F		
		33pF	±5%	338-1117-ND	1.40	1.20	1.00	MC12FD330J-F		
		47pF	±5%	338-1118-ND	1.40	1.20	1.00	MC12FD470J-F		
		62pF	±5%	338-1119-ND	1.40	1.20	1.00	MC12FD620J-F		
		68pF	±5%	338-1120-ND	1.40	1.20	1.00	MC12FD680J-F		
		100pF	±5%	338-1116-ND	1.68	1.44	1.20	MC12FD101J-F		
1210	100	47pF	±5%	338-1114-ND	1.26	1.08	.90	MC12FA470J-F		
		82pF	±5%	338-1341-ND	1.26	1.08	.90	MC12FA820J-F		
		100pF	±5%	338-1108-ND	1.37	1.17	.98	MC12FA101J-F		
		150pF	±1%	338-1109-ND	3.33	2.85	2.38	MC12FA151J-F		
		150pF	±5%	338-1110-ND	1.40	1.20	1.00	MC12FA151J-F		
		200pF	±5%	338-1111-ND	1.51	1.29	1.08	MC12FA201J-F		
		220pF	±5%	338-1112-ND	1.51	1.29	1.08	MC12FA21J-F		
		240pF	±5%	338-1113-ND	1.51	1.29	1.08	MC12FA241J-F		
		500	1000	100pF	±5%	338-1122-ND	1.68	1.44	1.20	MC18FD101J-F
				120pF	±5%	338-1123-ND	1.68	1.44	1.20	MC18FD121J-F
180pF	±5%			338-1345-ND	1.79	1.53	1.28	MC18FD181J-F		
220pF	±5%			338-1124-ND	1.89	1.62	1.35	MC18FD221J-F		
300pF	±5%			338-1125-ND	2.07	1.77	1.48	MC18FD301J-F		
330pF	±5%			338-1126-ND	2.07	1.77	1.48	MC18FB331J-F		
390pF	±5%			338-1127-ND	2.35	2.01	1.68	MC18FB391J-F		
470pF	±5%			338-1128-ND	2.35	2.01	1.68	MC18FD471J-F		
470pF	±5%			338-1121-ND	2.00	1.71	1.43	MC18FA471J-F		
750pF	±5%			338-1342-ND	2.21	1.89	1.58	MC18FA751J-F		
2220	500	100pF	±5%	338-1348-ND	2.46	2.12	1.76	MC22FF101J-F		
		220pF	±5%	338-1349-ND	2.89	2.48	2.07	MC22FF221J-F		
		330pF	±5%	338-1350-ND	3.13	2.68	2.24	MC22FF331J-F		
		390pF	±5%	338-1351-ND	3.21	2.76	2.30	MC22FF391J-F		
		430pF	±5%	338-1135-ND	3.21	2.76	2.30	MC22FF431J-F		
		470pF	±5%	338-1136-ND	3.21	2.76	2.30	MC22FF471J-F		
		560pF	±5%	338-1352-ND	3.53	3.03	2.52	MC22FF561J-F		
		1000pF	±5%	338-1134-ND	4.33	3.71	3.09	MC22FF102J-F		
		1500pF	±5%	338-1353-ND	5.22	4.48	3.73	MC22FF152J-F		
		500pF	±5%	338-1132-ND	2.87	2.46	2.05	MC22FD501J-F		
500	500	680pF	±5%	338-1346-ND	3.22	2.76	2.30	MC22FD681J-F		
		750pF	±5%	338-1133-ND	3.22	2.76	2.30	MC22FD751J-F		
		1000pF	±5%	338-1131-ND	3.61	3.09	2.58	MC22FD102J-F		
		1000pF	±5%	338-1129-ND	3.15	2.70	2.25	MC22FA102J-F		
		2000pF	±5%	338-1130-ND	4.17	3.57	2.98	MC22FA202J-F		
		100	1000	12	5%	338-1285-ND	1.42	1.22	1.02	MIN02-002CC120J-F
				20	5%	338-1289-ND	1.42	1.22	1.02	MIN02-002CC200J-F
				22	5%	338-1290-ND	1.42	1.22	1.02	MIN02-002DC220J-F
				25	5%	338-1292-ND	1.42	1.22	1.02	MIN02-002DC250J-F
				33	5%	338-1296-ND	1.42	1.22	1.02	MIN02-002DC330J-F
35	5%			338-1297-ND	1.42	1.22	1.02	MIN02-002DC350J-F		
50	5%			338-1302-ND	1.42	1.22	1.02	MIN02-002DC500J-F		
150	5%			338-1308-ND	2.37	2.04	1.70	MIN02-002EC151J-F		
1	300			470	5%	338-1338-ND	5.50	4.72	3.93	MCM01-009EF471J-F
				680	5%	338-1360-ND	3.78	3.24	2.70	MCM01-009EF681J-F
2	500	4.7	±5pF	338-1312-ND	2.89	2.48	2.07	MCM01-009D470J-F		
		10	5%	338-1313-ND	2.29	1.97	1.64	MCM01-009D100J-F		
		33	5%	338-1362-ND	1.65	1.41	1.18	MCM01-009D330J-F		
		68	5%	338-1363-ND	1.65	1.41	1.18	MCM01-009D680J-F		
		560	5%	338-1322-ND	4.99	4.28	3.57	MCM01-009D561J-F		
		1,000	5%	338-1324-ND	4.31	3.69	3.08	MCM01-009D102J-F		
		338-1357-ND (MCF100VKIT4)	Mica Cap Kit 5 each of marked values	\$37.08						
		338-1355-ND (MCF500VKIT5)	Mica Cap Kit 5 each of marked values	\$49.43						
338-1356-ND (MCF1000VKIT6)	Mica Cap Kit 5 each of marked values	\$61.98								

MCM and MIN Series Multilayer RF Clad Capacitors

Types MCM and MIN metal clad PTFE and mica capacitors are top performers for high power applications requiring low inductance at high frequencies.

Features: • 200°C rated with no voltage derating • Low ESR for RF power applications • Nonmagnetic for minimal RF loss • High frequency operation into the GHz range • Very low ESL for excellent bypass action
Ultra-low dielectric absorption for ≤32pF • Ultra stable: no change with temperature, voltage and frequency
Specifications: • Temperature Range: -55°C ~ 200°C with no voltage derating • Dielectric Strength: 200% of rated voltage for 5 seconds • Insulation Resistance: 1,000MΩ/µF Need not exceed 100,000MΩ at 25°C • Typical Q's: >2,000

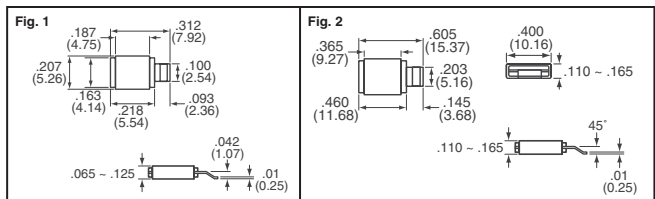


Fig.	VDC	Capacitance	Tolerance	Digi-Key Part No.	Price Each			Cornell Dubilier Part No.
					1	10	100	
1	300	12	5%	338-1285-ND	1.42	1.22	1.02	MIN02-002CC120J-F
		20	5%	338-1289-ND	1.42	1.22	1.02	MIN02-002CC200J-F
		22	5%	338-1290-ND	1.42	1.22	1.02	MIN02-002DC220J-F
		25	5%	338-1292-ND	1.42	1.22	1.02	MIN02-002DC250J-F
		33	5%	338-1296-ND	1.42	1.22	1.02	MIN02-002DC330J-F
		35	5%	338-1297-ND	1.42	1.22	1.02	MIN02-002DC350J-F
		50	5%	338-1302-ND	1.42	1.22	1.02	MIN02-002DC500J-F
		150	5%	338-1308-ND	2.37	2.04	1.70	MIN02-002EC151J-F
1	300	470	5%	338-1338-ND	5.50	4.72	3.93	MCM01-009EF471J-F
		680	5%	338-1360-ND	3.78	3.24	2.70	MCM01-009EF681J-F
2	500	4.7	±5pF	338-1312-ND	2.89	2.48	2.07	MCM01-009D470J-F
		10	5%	338-1313-ND	2.29	1.97	1.64	MCM01-009D100J-F
		33	5%	338-1362-ND	1.65	1.41	1.18	MCM01-009D330J-F
		68	5%	338-13				