

# CDE RF MICA Chip Capacitors



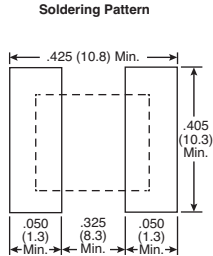
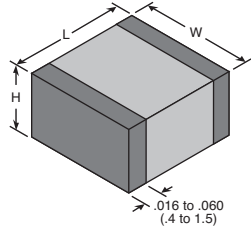
## MCH AND MCHN SERIES: HIGH VOLTAGE

### Features:

- No thermal cracking
- FR4 compatible and wave solderable
- Extremely high Q above 50 MHz
- Excellent for tuning and impedance matching

### Applications:

- RF Power Amplifiers
- MRI Generators
- Transmitters



DIMENSIONS: in. (mm)

### Magnetic

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	CDE Type	Volt (DC)	Value (pF)	Tol. ±	Dimensions: in.			Price Each		
					L	W	H	1	10	100
598-MCH38FM100D	MCH38FM100D	4000	10	5%	0.38	0.38	0.08	10.00	9.00	8.04
598-MCH38FM150J	MCH38FM150J	4000	15	5%	0.38	0.38	0.08	10.28	9.25	8.26
598-MCH38FM220J	MCH38FM220J	4000	22	5%	0.38	0.38	0.08	10.50	9.45	8.48
598-MCH38FM330J	MCH38FM330J	4000	33	5%	0.38	0.38	0.12	11.05	9.95	8.84
598-MCH38FM470J	MCH38FM470J	4000	47	5%	0.38	0.38	0.12	11.58	10.42	9.31
598-MCH38FM680J	MCH38FM680J	4000	68	5%	0.38	0.38	0.12	12.48	11.23	10.03
598-MCH38FM101J	MCH38FM101J	4000	100	5%	0.38	0.38	0.16	13.93	12.53	11.20
598-MCH38FM151J	MCH38FM151J	4000	150	5%	0.38	0.38	0.16	16.13	14.51	12.96
598-MCH38FM221J	MCH38FM221J	4000	220	5%	0.38	0.38	0.24	19.15	17.24	15.40
598-MCH38FK271J	MCH38FK271J	2500	270	5%	0.38	0.38	0.16	13.28	11.95	10.67
598-MCH38FK331J	MCH38FK331J	2500	330	5%	0.38	0.38	0.16	14.18	12.76	11.40
598-MCH38FK391J	MCH38FK391J	2500	390	5%	0.38	0.38	0.16	14.98	13.48	12.04
598-MCH38FK471J	MCH38FK471J	2500	470	5%	0.38	0.38	0.16	16.13	14.51	12.96
598-MCH38FK561J	MCH38FK561J	2500	560	5%	0.38	0.38	0.24	17.33	15.59	13.93
598-MCH38FK681J	MCH38FK681J	2500	680	5%	0.38	0.38	0.24	19.03	17.12	15.30
598-MCH38FK821J	MCH38FK821J	2500	820	5%	0.38	0.38	0.24	20.98	18.88	16.86
598-MCH38FK102J	MCH38FK102J	2500	1000	5%	0.38	0.38	0.27	23.58	21.22	18.95

### Non-Magnetic

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	CDE Type	Volt (DC)	Value (pF)	Tol. ±	Dimensions: in.			Price Each		
					L	W	H	1	10	100
598-MCHN38FM390J	MCHN38FM390J	4000	39	5%	0.38	0.38	0.12	13.58	12.22	10.91
598-MCHN38FM121J	MCHN38FM121J	4000	120	5%	0.38	0.38	0.16	17.80	16.02	14.31

### Engineering Design Kits

MOUSER STOCK NO.	CDE Type	Description	Cap Range (pF)	Volt (DC)	Price Each	
					1	2
598-MCH4000VKIT10	MCH4000VKIT10	Multilayer High RF Power Capacitors, Kit includes 5 each of 10 values (50 capacitors)	10 -220	4000	475.50	436.25
598-MCH2500VKIT8	MCH2500VKIT8	Multilayer High RF Power Capacitors, Kit includes 5 each of 8 values (40 capacitors)	270-1000	2500	545.00	500.00



## MC SERIES: HIGH POWER HV RF CHIP CAPACITORS

### Specifications:

- Temperature range: -55°C to +125°C
- Insulation resistance: 100GΩ min.
- Pulse handling: dV/dt of 20,000 v/ps
- Tight tolerances available
- Typical I<sub>RMS</sub> > 8 Amps @ 100mHz
- Voltage: 100VDC, 500VDC, 1000VDC
- Capacitance Range: .5pF to 2200pF



### MC08 Series

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	CDE Type MC	Volt (DC)	Value (pF)	Tol. ±	Case Size: in.			Price Each		
					L	W	H	1	100	500
598-MC08CA020D-F	MC08CA020D-F	100	2	.5pF	.079	.049	.055	1.02	.72	.61
598-MC08CA030D-F	MC08CA030D-F	100	3	.5pF	.079	.049	.055	1.02	.72	.61
5982-08-100V5.0-F	MC08CA050D-F	100	5	.5pF	.079	.049	.055	1.02	.72	.61
5982-08-100V10-F	MC08CA100D-F	100	10	.5pF	.079	.049	.055	1.02	.72	.61
5982-08-100V15-F	MC08EA150J-F	100	15	5%	.079	.049	.055	1.02	.72	.61
5982-08-100V22-F	MC08EA220J-F	100	22	5%	.079	.049	.055	1.02	.72	.61
5982-08-100V27-F	MC08EA270J-F	100	27	5%	.079	.049	.055	1.02	.72	.61

### MC12 Series

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	CDE Type MC	Volt (DC)	Value (pF)	Tol. ±	Case Size: in.			Price Each		
					L	W	H	1	100	500
5982-12-100V100-F	MC12FA101J-F	100	100	5%	.126	.098	.079	1.27	.89	.76
598-MC12FA151J-F	MC12FA151J-F	100	150	5%	.126	.098	.079	1.31	.92	.79
5982-12-100V220-F	MC12FA221J-F	100	220	5%	.126	.098	.079	1.40	.98	.84
598-MC12FA241J-F	MC12FA241J-F	100	240	5%	.126	.098	.079	1.40	.98	.84
5982-12-500V5.0-F	MC12CD050D-F	500	5	.5pF	.126	.098	.079	1.27	.89	.76
5982-12-500V10-F	MC12CD100D-F	500	10	.5pF	.126	.098	.079	1.27	.89	.76
5982-12-500V15-F	MC12ED150J-F	500	15	5%	.126	.098	.079	1.31	.92	.79
598-MC12FD330J-F	MC12FD330J-F	500	33	5%	.126	.098	.079	1.31	.92	.79
5982-12-500V47-F	MC12FD470J-F	500	47	5%	.126	.098	.079	1.31	.92	.79
5982-12-500V100-F	MC12FD101J-F	500	100	5%	.126	.098	.079	1.59	1.13	.93

### MC18 Series

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	CDE Type MC	Volt (DC)	Value (pF)	Tol. ±	Case Size: in.			Price Each		
					L	W	H	1	100	500
5982-18-500V100-F	MC18FD101J-F	500	100	5%	.177	.126	.079	1.59	1.13	.93
598-MC18FD121J-F	MC18FD121J-F	500	120	5%	.177	.126	.079	1.59	1.13	.93
5982-18-500V220-F	MC18FD221J-F	500	220	5%	.177	.126	.079	1.77	1.26	1.04
598-MC18FD301J-F	MC18FD301J-F	500	300	5%	.177	.126	.079	1.98	1.37	1.19
5982-18-500V330-F	MC18FD331J-F	500	330	5%	.177	.126	.079	1.98	1.37	1.19
598-MC18FD391J-F	MC18FD391J-F	500	390	5%	.177	.126	.079	2.20	1.52	1.32

### MC22 Series

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	CDE Type MC	Volt (DC)	Value (pF)	Tol. ±	Case Size: in.			Price Each		
					L	W	H	1	100	500
598-MC22FA102J-F	MC22FA102J-F	100	1000	5%	.224	.197	.079	3.00	2.10	1.73
5982-22-100V2K-F	MC22FA202J-F	100	2000	5%	.224	.197	.079	3.91	2.75	2.33
598-MC22FD501J-F	MC22FD501J-F	500	500	5%	.224	.197	.079	2.80	1.95	1.63
598-MC22FD751J-F	MC22FD751J-F	500	750	5%	.224	.197	.079	3.07	2.14	1.89
5982-22-500V1000-F	MC22FD102J-F	500	1000	5%	.224	.197	.079	3.38	2.38	2.03
5982-22-1000V470-F	MC22FF471J-F	1000	470	5%	.224	.197	.157	3.04	2.13	1.81
5982-22-1000V1000-F	MC22FF102J-F	1000	1000	5%	.224	.197	.157	4.08	2.87	2.43
5982-22-1000V1500-F	MC22FF152J-F	1000	1500	5%	.224	.197	.157	4.93	3.46	2.96

