

CORNELL DUBILIER RF MICA Chip Capacitors

MCH SERIES: HIGH VOLTAGE MAGNETIC

Features:

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

Applications:

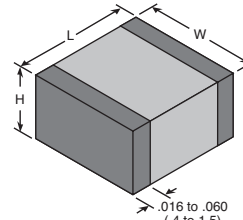
- RF Power Amplifiers
- MRI Generators
- Transmitters



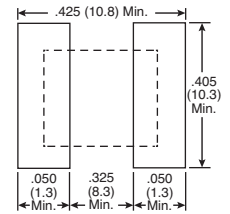
RoHS Compliant

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	34.20	30.78	27.48
598-MCH38FM150J	MCH38FM150J	4000	15	5%	0.38	0.38	0.08	35.12	31.61	28.22
598-MCH38FM220J	MCH38FM220J	4000	22	5%	0.38	0.38	0.08	35.90	32.29	28.84
598-MCH38FM330J	MCH38FM330J	4000	33	5%	0.38	0.38	0.12	37.72	33.96	30.30
598-MCH38FM470J	MCH38FM470J	4000	47	5%	0.38	0.38	0.12	35.09	31.57	28.21
598-MCH38FM680J	MCH38FM680J	4000	68	5%	0.38	0.38	0.12	42.64	38.37	34.25
598-MCH38FM101J	MCH38FM101J	4000	100	5%	0.38	0.38	0.16	42.18	37.94	33.92
598-MCH38FM151J	MCH38FM151J	4000	150	5%	0.38	0.38	0.16	48.85	43.94	39.25
598-MCH38FK271J	MCH38FK271J	2500	270	5%	0.38	0.38	0.16	45.36	40.82	36.43
598-MCH38FK331J	MCH38FK331J	2500	330	5%	0.38	0.38	0.16	48.41	43.56	38.90
598-MCH38FK391J	MCH38FK391J	2500	390	5%	0.38	0.38	0.16	51.14	46.02	41.08
598-MCH38FK471J	MCH38FK471J	2500	470	5%	0.38	0.38	0.16	55.12	49.58	44.28
598-MCH38FK561J	MCH38FK561J	2500	560	5%	0.38	0.38	0.24	59.20	53.26	47.57
598-MCH38FK681J	MCH38FK681J	2500	680	5%	0.38	0.38	0.24	65.00	58.48	52.27



Soldering Pattern



DIMENSIONS: in. (mm)

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	508.79	466.79
598-MCH2500VKIT8	MCH2500VKIT8	Multilayer High RF Power Capacitors, Kit includes 5 each of 8 values (40 capacitors)	270-1000	2500	583.14	534.99

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/μs
- Tight tolerances available
- Typical I_{RMS} > 8 Amps @ 100mHz
- Voltage: 100VDC, 500VDC, 1000VDC
- Capacitance Range: .5pF to 2200pF



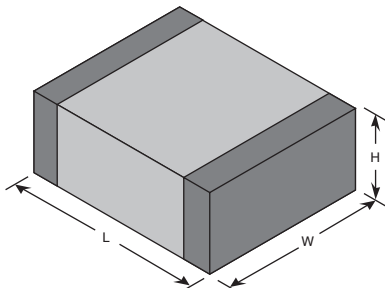
RoHS Compliant

Features:

- Low impedance to beyond 1GHz
- Near-zero capacitance change in all environments
- Withstands 200% rated voltage for up to 5 seconds
- Very High Q
- FREE from cracking / delaminating
- FR4 Compatible and wire solderable

Applications:

- CATV
- Flight Radio
- RF and Microwave
- Resonators
- Lasers



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	1.08	.764	.526
598-MC08CA030D-F	MC08CA030D-F	100	3	.5pF	.079	.049	.055	1.08	.764	.526
5982-08-100V5.0-F	MC08CA050D-F	100	5	.5pF	.079	.049	.055	1.08	.764	.526
5982-08-100V10-F	MC08CA100D-F	100	10	.5pF	.079	.049	.055	1.08	.764	.526
5982-08-100V15-F	MC08EA150J-F	100	15	5%	.079	.049	.055	1.08	.764	.526
5982-08-100V22-F	MC08EA220J-F	100	22	5%	.079	.049	.055	1.08	.764	.526
5982-08-100V27-F	MC08EA270J-F	100	27	5%	.079	.049	.055	1.08	.764	.526

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	1.35	.95	.811
598-MC12FA151J-F	MC12FA151J-F	100	150	5%	.126	.098	.079	1.39	.978	.84
5982-12-100V220-F	MC12FA221J-F	100	220	5%	.126	.098	.079	1.50	1.05	.902
598-MC12FA241J-F	MC12FA241J-F	100	240	5%	.126	.098	.079	1.50	1.05	.902
5982-12-500V5.0-F	MC12CD050D-F	500	5	.5pF	.126	.098	.079	1.35	.948	.809
5982-12-500V10-F	MC12CD100D-F	500	10	.5pF	.126	.098	.079	1.35	.948	.809
5982-12-500V15-F	MC12ED150J-F	500	15	5%	.126	.098	.079	1.39	.978	.84
598-MC12FD330J-F	MC12FD330J-F	500	33	5%	.126	.098	.079	.99	.80	.78
5982-12-500V47-F	MC12FD470J-F	500	47	5%	.126	.098	.079	1.39	.978	.84
5982-12-500V100-F	MC12FD101J-F	500	100	5%	.126	.098	.079	1.69	1.20	.992

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	1.69	1.20	.992
598-MC18FD121J-F	MC18FD121J-F	500	120	5%	.177	.126	.079	1.69	1.20	.992
5982-18-500V220-F	MC18FD221J-F	500	220	5%	.177	.126	.079	1.89	1.35	1.11
598-MC18FD301J-F	MC18FD301J-F	500	300	5%	.177	.126	.079	2.12	1.47	1.26
5982-18-500V330-F	MC18FD331J-F	500	330	5%	.177	.126	.079	2.12	1.47	1.26
598-MC18FD391J-F	MC18FD391J-F	500	390	5%	.177	.126	.079	2.34	1.62	1.40

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	3.21	2.24	1.85
5982-22-100V2K-F	MC22FA202J-F	100	2000	5%	.224	.197	.079	4.18	2.94	2.49
598-MC22FD501J-F	MC22FD501J-F	500	500	5%	.224	.197	.079	2.99	2.08	1.74
598-MC22FD751J-F	MC22FD751J-F	500	750	5%	.224	.197	.079	3.28	2.28	1.96
5982-22-500V1000-F	MC22FD102J-F	500	1000	5%	.224	.197	.079	3.60	2.54	2.16
5982-22-1000V470-F	MC22FF471J-F	1000	470	5%	.224	.197	.157	3.24	2.27	1.93
5982-22-1000V1000-F	MC22FF102J-F	1000	1000	5%	.224	.197	.157	4.35	3.06	2.59
5982-22-1000V1500-F	MC22FF152J-F	1000	1500	5%	.224	.197	.157	5.27	3.70	3.16