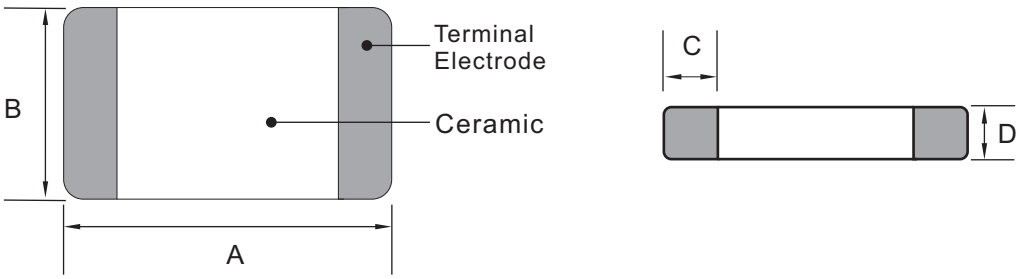
Multilayer Chip Inductor

Features and Applications

- Monolithic structure for high reliability.
- Compact size inductor possible.
- No cross coupling due to magnetic shield.
- Perfect shape for mounting with no directionality.
- Excellent solderability and high heat resistance for reflow soldering or wave soldering.
- Widely use in communications, Video and audio equipment, computer, remote control, etc.

Dimensions (Unit:mm)



Type	A	B	C	D
EMCI0402	1.0±0.15	0.5±0.15	0.5±0.15	0.25±0.1
EMCI0603	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
EMCI080509	2.0(+0.3,-0.1)	1.25±0.2	0.85±0.2	0.5±0.3
EMCI080512			1.25±0.2	
EMCI120609	3.2±0.2	1.6±0.2	0.85±0.2	0.5±0.3
EMCI120611			1.1±0.2	
EMCI1210	3.2±0.2	2.5±0.2	1.3±0.3	0.8±0.2

Electrical Specifications-EMCI0402

P/N	Inductance (nH)	Q (Min)	Test Freq. (MHz)	SRF(Min) (GHz)	DCR(Max) (Ω)	IDC(Max) (mA)
EMCI0402-47N□	0.047	10	50	220	0.45	25
EMCI0402-68N□	0.068	10	50	210	0.45	25
EMCI0402-82N□	0.082	10	50	200	0.45	25
EMCI0402-R10□	0.1	10	25	200	0.8	25
EMCI0402-R12□	0.12	10	25	165	0.8	25
EMCI0402-R15□	0.15	10	25	140	0.9	25
EMCI0402-R18□	0.18	10	25	120	0.9	25
EMCI0402-R22□	0.22	10	25	110	1.2	25
EMCI0402-R27□	0.27	15	25	95	1.2	25
EMCI0402-R33□	0.33	15	25	85	1.25	18
EMCI0402-R39□	0.39	20	10	85	0.6	15
EMCI0402-R47□	0.47	20	10	80	0.7	15
EMCI0402-R56□	0.56	20	10	75	0.8	15
EMCI0402-R68□	0.68	20	10	70	0.9	15
EMCI0402-R82□	0.82	20	10	65	0.9	15
EMCI0402-1R0□	1	20	10	40	0.9	15
EMCI0402-1R2□	1.2	20	10	35	1.2	15
EMCI0402-1R5□	1.5	20	10	30	1.2	15
EMCI0402-1R8□	1.8	20	10	30	1.45	15
EMCI0402-2R2□	2.2	20	10	28	1.7	10
EMCI0402-2R7□	2.7	20	10	28	2.4	10
EMCI0402-3R3□	3.3	20	10	28	2.7	10

- Please specify the inductance tolerance code(J=±5%; K=±10%; M=±20%; N=±30%)

Electrical Specifications-EMCI0603

P/N	Inductance (nH)	Q (Min)	Test Freq. (MHz)	SRF(Min) (GHz)	DCR(Max) (Ω)	IDC(Max) (mA)
EMCI0603-47N□	0.047	10	50	260	0.3	50
EMCI0603-68N□	0.068	10	50	250	0.3	50
EMCI0603-82N□	0.082	10	50	245	0.3	50
EMCI0603-R10□	0.1	15	25	240	0.5	50
EMCI0603-R12□	0.12	15	25	205	0.5	50
EMCI0603-R15□	0.15	15	25	180	0.6	50
EMCI0603-R18□	0.18	15	25	165	0.6	50
EMCI0603-R22□	0.22	15	25	150	0.8	50
EMCI0603-R27□	0.27	15	25	136	0.8	50
EMCI0603-R33□	0.33	15	25	125	0.85	35
EMCI0603-R39□	0.39	15	25	110	1	35
EMCI0603-R47□	0.47	15	25	105	1.35	35
EMCI0603-R56□	0.56	15	25	95	1.55	35
EMCI0603-R68□	0.68	15	25	90	1.7	35
EMCI0603-R82□	0.82	15	25	85	2.1	35
EMCI0603-1R0□	1	35	10	75	0.6	25
EMCI0603-1R2□	1.2	35	10	65	0.8	25
EMCI0603-1R5□	1.5	35	10	60	0.8	25
EMCI0603-1R8□	1.8	35	10	55	0.95	25
EMCI0603-2R2□	2.2	35	10	50	1.15	15
EMCI0603-2R7□	2.7	35	10	45	1.35	15
EMCI0603-3R3□	3.3	35	10	40	1.55	15
EMCI0603-3R9□	3.9	35	10	35	1.7	15
EMCI0603-4R7□	4.7	35	10	33	2.1	15
EMCI0603-5R6□	5.6	35	4	22	1.55	5
EMCI0603-6R8□	6.8	35	4	20	1.7	5
EMCI0603-8R2□	8.2	35	4	18	2.1	5
EMCI0603-100□	10	30	2	17	1.85	3
EMCI0603-120□	12	30	2	15	2.1	3
EMCI0603-150□	15	20	1	14	1.7	1
EMCI0603-180□	18	20	1	13	1.85	1
EMCI0603-220□	22	20	1	11	2.1	1
EMCI0603-270□	27	20	1	10	2.75	1
EMCI0603-330□	33	20	1	9	2.95	1

Electrical Specifications-EMCI0805

P/N	Inductance (nH)	Q (Min)	Test Freq. (MHz)	SRF(Min) (GHz)	DCR(Max) (Ω)	IDC(Max) (mA)
EMCI080509-47N□	0.047	15	50	320	0.2	300
EMCI080509-68N□	0.068	15	50	280	0.2	300
EMCI080509-82N□	0.082	15	50	255	0.2	300
EMCI080509-R10□	0.1	20	25	235	0.3	250
EMCI080509-R12□	0.12	20	25	220	0.3	250
EMCI080509-R15□	0.15	20	25	200	0.4	250
EMCI080509-R18□	0.18	20	25	185	0.4	250
EMCI080509-R22□	0.22	20	25	170	0.5	250
EMCI080509-R27□	0.27	20	25	150	0.5	250
EMCI080509-R33□	0.33	20	25	145	0.55	250
EMCI080509-R39□	0.39	25	25	135	0.65	200
EMCI080509-R47□	0.47	25	25	125	0.65	200
EMCI080509-R56□	0.56	25	25	115	0.75	150
EMCI080509-R68□	0.68	25	25	105	0.8	150
EMCI080509-R82□	0.82	25	25	100	1	150
EMCI080509-1R0□	1	45	10	75	0.4	50
EMCI080509-1R2□	1.2	45	10	65	0.5	50
EMCI080509-1R5□	1.5	45	10	60	0.5	50
EMCI080509-1R8□	1.8	45	10	55	0.6	50
EMCI080509-2R2□	2.2	45	10	50	0.65	30
EMCI080509-2R7□	2.7	45	10	45	0.75	30
EMCI080509-3R3□	3.3	45	10	41	0.8	30
EMCI080509-3R9□	3.9	45	10	38	0.9	30
EMCI080509-4R7□	4.7	45	10	35	1	30
EMCI080509-5R6□	5.6	50	4	32	0.9	15
EMCI080509-6R8□	6.8	50	4	29	1	15
EMCI080509-8R2□	8.2	50	4	26	1.1	15
EMCI080509-100□	10	50	2	24	1.15	15
EMCI080509-120□	12	50	2	22	1.25	15
EMCI080509-150□	15	30	1	19	0.8	5
EMCI080509-180□	18	30	1	18	0.9	5
EMCI080509-220□	22	30	1	16	1.1	5
EMCI080512-270□	27	30	1	14	1.15	5
EMCI080512-330□	33	30	0.4	13	1.25	5
EMCI080512-390□	39	35	2	8	2.9	4
EMCI080512-470□	47	35	2	7.5	3	4

- Please specify the inductance tolerance code(J=±5%; K=±10%; M=±20%; N=±30%)

Electrical Specifications-EMCI1206

P/N	Inductance (nH)	Q (Min)	Test Freq. (MHz)	SRF(Min) (GHz)	DCR(Max) (Ω)	IDC(Max) (mA)
EMCI120609-47N□	0.047	20	50	320	0.15	300
EMCI120609-68N□	0.068	20	50	280	0.25	300
EMCI120609-R10□	0.1	20	25	235	0.25	250
EMCI120609-R12□	0.12	20	25	220	0.3	250
EMCI120609-R15□	0.15	20	25	200	0.3	250
EMCI120609-R18□	0.18	20	25	185	0.4	250
EMCI120609-R22□	0.22	20	25	170	0.4	250
EMCI120609-R27□	0.27	20	25	150	0.5	250
EMCI120609-R33□	0.33	20	25	145	0.6	250
EMCI120609-R39□	0.39	25	25	135	0.5	200
EMCI120609-R47□	0.47	25	25	125	0.6	200
EMCI120609-R56□	0.56	25	25	115	0.7	150
EMCI120609-R68□	0.68	25	25	105	0.8	150
EMCI120609-R82□	0.82	25	25	100	0.9	150
EMCI120609-1R0□	1	45	10	75	0.4	100
EMCI120609-1R2□	1.2	45	10	65	0.5	100
EMCI120609-1R5□	1.5	45	10	60	0.5	50
EMCI120609-1R8□	1.8	45	10	55	0.5	50
EMCI120609-2R2□	2.2	45	10	50	0.6	50
EMCI120609-2R7□	2.7	45	10	45	0.6	50
EMCI120609-3R3□	3.3	45	10	41	0.7	50
EMCI120609-3R9□	3.9	45	10	38	0.8	50
EMCI120609-4R7□	4.7	45	10	35	0.9	50
EMCI120609-5R6□	5.6	50	4	32	0.7	25
EMCI120609-6R8□	6.8	50	4	29	0.8	25
EMCI120609-8R2□	8.2	50	4	26	0.9	25
EMCI120609-100□	10	50	2	24	1	25
EMCI120609-120□	12	50	2	22	1.05	15
EMCI120609-150□	15	35	1	19	0.7	5
EMCI120609-180□	18	35	1	18	0.7	5
EMCI120609-220□	22	35	1	16	0.9	5
EMCI120611-270□	27	35	1	14	0.9	5
EMCI120611-330□	33	35	0.4	13	1.05	5
EMCI120611-390□	39	40	2	11	3	5
EMCI120611-470□	47	40	2	10	3.4	5

- Please specify the inductance tolerance code(J=±5%; K=±10%; M=±20%; N=±30%)

Electrical Specifications-EMCI1210

P/N	Inductance (nH)	Q (Min)	Test Freq. (MHz)	SRF(Min) (GHz)	DCR(Max) (Ω)	IDC(Max) (mA)
EMCI1210-R10□	0.1	20	25	235	0.25	250
EMCI1210-R12□	0.12	20	25	220	0.3	250
EMCI1210-R15□	0.15	20	25	200	0.3	250
EMCI1210-R18□	0.18	20	25	185	0.4	250
EMCI1210-R22□	0.22	20	25	170	0.4	250
EMCI1210-R27□	0.27	20	25	150	0.5	250
EMCI1210-R33□	0.33	20	25	145	0.6	250
EMCI1210-R39□	0.39	25	25	135	0.5	200
EMCI1210-R47□	0.47	25	25	125	0.6	200
EMCI1210-R56□	0.56	25	25	115	0.7	150
EMCI1210-R68□	0.68	25	25	105	0.8	150
EMCI1210-R82□	0.82	25	25	100	0.9	150
EMCI1210-1R0□	1	45	10	75	0.4	100
EMCI1210-1R2□	1.2	45	10	65	0.5	100
EMCI1210-1R5□	1.5	45	10	60	0.5	50
EMCI1210-1R8□	1.8	45	10	55	0.5	50
EMCI1210-2R2□	2.2	45	10	50	0.6	50
EMCI1210-2R7□	2.7	45	10	45	0.6	50
EMCI1210-3R3□	3.3	45	10	41	0.7	50
EMCI1210-3R9□	3.9	45	10	38	0.8	50
EMCI1210-4R7□	4.7	45	10	35	0.9	50
EMCI1210-5R6□	5.6	50	4	32	0.7	25
EMCI1210-6R8□	6.8	50	4	29	0.8	25
EMCI1210-8R2□	8.2	50	4	26	0.9	25
EMCI1210-100□	10	50	2	24	1	25
EMCI1210-120□	12	50	2	22	1.05	15
EMCI1210-150□	15	35	1	19	0.7	5
EMCI1210-180□	18	35	1	18	0.7	5
EMCI1210-220□	22	35	1	16	0.9	5
EMCI1210-270□	27	35	1	14	0.9	5
EMCI1210-330□	33	35	0.4	13	1.05	5
EMCI1210-390□	39	40	2	11	3	10
EMCI1210-470□	47	40	2	10	3.4	10
EMCI1210-560□	56	40	2	9.5	3.8	4
EMCI1210-680□	68	40	1	9.5	3	4
EMCI1210-820□	82	40	1	9	3.4	4
EMCI121022-101□	100	40	1	8	3.8	4
EMCI121022-121□	120	30	0.4	6	3	2

- Please specify the inductance tolerance code(J=±5%; K=±10%; M=±20%; N=±30%)