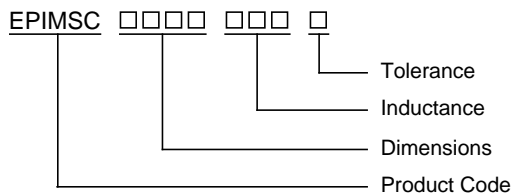


Applications :  
RF Products for Cellular Phone, GPS Receiver, Base Station,  
Repeater, Wireless LAN/Mouse/Keyboard/Earphone,  
Remote Control, Security System and other RF Modules

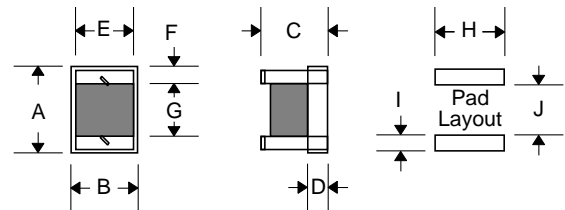
Specifications :  
Operating/Storage Temperature : -40°C to +125°C  
Wire : Enameled Copper  
Terminal : Mo/Mn/Ni/Au  
Packaging : 3000/Reel  
Material : Alumina

### Product Identification



□ : Tolerance (G = ± 2%, J = ± 5%, K = ± 10%)

### Shape and Dimension



### Package Dimensions

Type	A Inches (mm)	B Inches (mm)	C Inches (mm)	D Inches Ref. (mm Ref.)	E Inches (mm)	F Inches (mm)	G Inches (mm)	H Inches (mm)	I Inches (mm)	J Inches (mm)
EPIMSC0402C	.047 (1.19)	.027 (.700)	.026 (.660)	.098 (.250)	.022 (.560)	.009 (.230)	.020 (.510)	.026 (.660)	.014 (.360)	.018 (.460)
EPIMSC0603C	.071 (1.80)	.044 (1.12)	.040 (1.02)	.014 (.350)	.034 (.860)	.013 (.330)	.030 (.760)	.040 (1.02)	.025 (.640)	.025 (.640)
EPIMSC0805C	.090 (2.29)	.068 (1.73)	.060 (1.52)	.019 (.500)	.040 (1.02)	.017 (.440)	.050 (1.27)	.070 (1.78)	.040 (1.02)	.030 (.760)
EPIMSC1008C	.114 (2.92)	.110 (2.79)	.080 (2.03)	.027 (.700)	.060 (1.52)	.020 (.510)	.080 (2.03)	.100 (2.54)	.040 (1.02)	.050 (1.27)

### Electrical Characteristics (EPIMSC0402C Type)

Part Number	Inductance (nH)	Test Frequency (MHz)	Q (Min.)	SRF (MHz Min.)	DCR ( Max.)	I <sub>rms</sub> (mA Max.)
EPIMSC0402C-1N0 □	1.0	250	16	12700	0.045	1360
EPIMSC0402C-1N9 □	1.9	250	16	11300	0.070	1040
EPIMSC0402C-2N0 □	2.0	250	16	11100	0.070	1040
EPIMSC0402C-2N2 □	2.2	250	19	10800	0.070	960
EPIMSC0402C-2N4 □	2.4	250	15	10500	0.068	790
EPIMSC0402C-2N7 □	2.7	250	16	10400	0.120	640
EPIMSC0402C-3N3 □	3.3	250	19	7000	0.066	840
EPIMSC0402C-3N6 □	3.6	250	19	6800	0.066	840
EPIMSC0402C-3N9 □	3.9	250	19	6000	0.066	840
EPIMSC0402C-4N3 □	4.3	250	18	6000	0.091	700
EPIMSC0402C-4N7 □	4.7	250	15	4770	0.130	640
EPIMSC0402C-5N1 □	5.1	250	20	4800	0.083	800
EPIMSC0402C-5N6 □	5.6	250	20	4800	0.083	760
EPIMSC0402C-6N2 □	6.2	250	20	4800	0.083	760
EPIMSC0402C-6N8 □	6.8	250	20	4800	0.083	680
EPIMSC0402C-7N5 □	7.5	250	22	4800	0.100	680
EPIMSC0402C-8N2 □	8.2	250	22	4400	0.100	680
EPIMSC0402C-8N7 □	8.7	250	18	4100	0.200	480

Unless Otherwise Specified Dimensions are in Inches /mm ± .010 / .25

### Electrical Characteristics (EPIMSC0402C Type)

Part Number	Inductance (nH)	Test Frequency (MHz)	Q (Min.)	SRF (MHz Min.)	DCR (Max.)	Irms (mA Max.)
EPIMSC0402C-9N0 <input type="checkbox"/>	9.0	250	22	4160	0.10	680
EPIMSC0402C-9N5 <input type="checkbox"/>	9.5	250	18	4000	0.20	480
EPIMSC0402C-10N <input type="checkbox"/>	10.0	250	21	3900	0.20	480
EPIMSC0402C-11N <input type="checkbox"/>	11.0	250	24	3680	0.12	640
EPIMSC0402C-12N <input type="checkbox"/>	12.0	250	24	3600	0.12	640
EPIMSC0402C-13N <input type="checkbox"/>	13.0	250	24	3450	0.21	440
EPIMSC0402C-15N <input type="checkbox"/>	15.0	250	24	3280	0.17	560
EPIMSC0402C-16N <input type="checkbox"/>	16.0	250	24	3100	0.22	560
EPIMSC0402C-18N <input type="checkbox"/>	18.0	250	25	3100	0.23	420
EPIMSC0402C-19N <input type="checkbox"/>	19.0	250	24	3040	0.20	480
EPIMSC0402C-20N <input type="checkbox"/>	20.0	250	25	3000	0.25	420
EPIMSC0402C-22N <input type="checkbox"/>	22.0	250	25	2800	0.30	400
EPIMSC0402C-23N <input type="checkbox"/>	23.0	250	22	2720	0.30	400
EPIMSC0402C-24N <input type="checkbox"/>	24.0	250	25	2700	0.30	400
EPIMSC0402C-27N <input type="checkbox"/>	27.0	250	24	2480	0.30	4000
EPIMSC0402C-30N <input type="checkbox"/>	30.0	250	25	2350	0.30	400
EPIMSC0402C-33N <input type="checkbox"/>	33.0	250	24	2350	0.40	400
EPIMSC0402C-36N <input type="checkbox"/>	36.0	250	24	2320	0.44	320
EPIMSC0402C-39N <input type="checkbox"/>	39.0	250	25	2100	0.55	200
EPIMSC0402C-40N <input type="checkbox"/>	40.0	250	24	2240	0.44	320
EPIMSC0402C-43N <input type="checkbox"/>	43.0	250	25	2030	0.81	100
EPIMSC0402C-47N <input type="checkbox"/>	47.0	250	20	2100	0.83	150
EPIMSC0402C-51N <input type="checkbox"/>	51.0	250	25	1750	0.82	100
EPIMSC0402C-56N <input type="checkbox"/>	56.0	250	22	1760	0.97	100
EPIMSC0402C-68N <input type="checkbox"/>	68.0	250	22	1620	1.12	100
EPIMSC0402C-82N <input type="checkbox"/>	82.0	250	20	1260	1.55	50
EPIMSC0402C-R10 <input type="checkbox"/>	100.0	250	20	1160	2.00	30

### Electrical Characteristics (EPIMSC0603C Type)

Part Number	Inductance (nH)	Test Frequency (MHz)	Q (Min.)	SRF (MHz Min.)	DCR (Max.)	Irms (mA Max.)
EPIMSC0603C-1N6 <input type="checkbox"/>	1.6	250	24	12500	0.030	700
EPIMSC0603C-1N8 <input type="checkbox"/>	1.8	250	16	12500	0.045	700
EPIMSC0603C-3N6 <input type="checkbox"/>	3.6	250	22	5900	0.063	700
EPIMSC0603C-3N9 <input type="checkbox"/>	3.9	250	22	6900	0.080	700
EPIMSC0603C-4N3 <input type="checkbox"/>	4.3	250	22	5900	0.063	700
EPIMSC0603C-4N7 <input type="checkbox"/>	4.7	250	20	5800	0.116	700
EPIMSC0603C-5N1 <input type="checkbox"/>	5.1	250	20	5700	0.140	700
EPIMSC0603C-5N6 <input type="checkbox"/>	5.6	250	20	5800	0.170	700
EPIMSC0603C-6N3 <input type="checkbox"/>	6.3	250	20	5700	0.140	700
EPIMSC0603C-6N8 <input type="checkbox"/>	6.8	250	27	5800	0.110	700
EPIMSC0603C-7N5 <input type="checkbox"/>	7.5	250	28	4800	0.106	700
EPIMSC0603C-8N2 <input type="checkbox"/>	8.2	250	28	4700	0.109	700
EPIMSC0603C-8N7 <input type="checkbox"/>	8.7	250	28	4600	0.109	700
EPIMSC0603C-9N5 <input type="checkbox"/>	9.5	250	28	5400	0.135	700
EPIMSC0603C-10N <input type="checkbox"/>	10	250	31	4800	0.130	700
EPIMSC0603C-11N <input type="checkbox"/>	11	250	33	4000	0.086	700
EPIMSC0603C-12N <input type="checkbox"/>	12	250	35	4000	0.130	700
EPIMSC0603C-15N <input type="checkbox"/>	15	250	35	4000	0.170	700
EPIMSC0603C-16N <input type="checkbox"/>	16	250	34	3300	0.104	700
EPIMSC0603C-18N <input type="checkbox"/>	18	250	35	3100	0.170	700
EPIMSC0603C-22N <input type="checkbox"/>	22	250	38	3000	0.190	700
EPIMSC0603C-24N <input type="checkbox"/>	24	250	37	2650	0.135	700
EPIMSC0603C-27N <input type="checkbox"/>	27	250	40	2800	0.220	600
EPIMSC0603C-30N <input type="checkbox"/>	30	250	37	2250	0.144	600
EPIMSC0603C-33N <input type="checkbox"/>	33	250	40	2300	0.220	600
EPIMSC0603C-36N <input type="checkbox"/>	36	250	38	2080	0.250	600
EPIMSC0603C-39N <input type="checkbox"/>	39	250	40	2200	0.250	600
EPIMSC0603C-43N <input type="checkbox"/>	43	250	39	2000	0.280	600
EPIMSC0603C-47N <input type="checkbox"/>	47	200	38	2000	0.280	600
EPIMSC0603C-56N <input type="checkbox"/>	56	200	38	1900	0.310	600
EPIMSC0603C-68N <input type="checkbox"/>	68	200	37	1700	0.340	600
EPIMSC0603C-72N <input type="checkbox"/>	72	150	34	1700	0.490	600
EPIMSC0402C-82N <input type="checkbox"/>	82	150	34	1700	0.540	400
EPIMSC0402C-R10 <input type="checkbox"/>	100	150	34	1400	0.580	400
EPIMSC0603C-R11 <input type="checkbox"/>	110	150	32	1350	0.610	400
EPIMSC0603C-R12 <input type="checkbox"/>	120	150	32	1300	0.750	300
EPIMSC0603C-R15 <input type="checkbox"/>	150	150	28	990	0.920	300
EPIMSC0603C-R18 <input type="checkbox"/>	180	100	25	990	1.250	280
EPIMSC0603C-R22 <input type="checkbox"/>	220	100	25	900	2.100	200
EPIMSC0603C-R27 <input type="checkbox"/>	270	100	24	900	2.300	170
EPIMSC0603C-R33 <input type="checkbox"/>	330	100	25	900	3.890	100
EPIMSC0603C-R39 <input type="checkbox"/>	390	100	25	700	4.350	100

### Electrical Characteristics (EPIMSC0805C Type)

Part Number	Inductance (nH)	Test Frequency (MHz)	Q (Min.)	SRF (MHz Min.)	DCR (Max.)	Irms (mA Max.)
EPIMSC0805C-2N8 □	2.8	250	80	7900	0.06	800
EPIMSC0805C-3N0 □	3.0	250	65	7900	0.06	800
EPIMSC0603C-3N3 □	3.3	250	50	7900	0.08	600
EPIMSC0805C-5N6 □	5.6	250	65	5500	0.08	600
EPIMSC0805C-6N8 □	6.8	250	50	5500	0.11	600
EPIMSC0805C-7N5 □	7.5	250	50	4500	0.14	600
EPIMSC0805C-8N2 □	8.2	250	50	4700	0.12	600
EPIMSC0805C-10N □	10	250	60	4200	0.10	600
EPIMSC0805C-12N □	12	250	50	4000	0.15	600
EPIMSC0805C-15N □	15	250	50	3400	0.17	600
EPIMSC0805C-18N □	18	250	50	3300	0.20	600
EPIMSC0805C-22N □	22	250	55	2600	0.22	500
EPIMSC0805C-24N □	24	250	50	2000	0.22	500
EPIMSC0805C-27N □	27	250	55	2500	0.25	500
EPIMSC0805C-33N □	33	250	60	2050	0.27	500
EPIMSC0805C-36N □	36	250	55	1700	0.27	500
EPIMSC0805C-39N □	39	250	60	2000	0.29	500
EPIMSC0805C-43N □	43	200	60	1650	0.34	500
EPIMSC0805C-47N □	47	200	60	1650	0.31	500
EPIMSC0805C-56N □	56	200	60	1550	0.34	500
EPIMSC0805C-68N □	68	200	60	1450	0.38	500
EPIMSC0805C-82N □	82	150	65	1300	0.42	400
EPIMSC0805C-91N □	91	150	65	1200	0.48	400
EPIMSC0805C-R10 □	100	150	65	1200	0.46	400
EPIMSC0805C-R11 □	110	150	50	1000	0.48	400
EPIMSC0805C-R12 □	120	150	50	1100	0.51	400
EPIMSC0805C-R15 □	150	100	50	920	0.56	400
EPIMSC0805C-R18 □	180	100	50	870	0.64	400
EPIMSC0805C-R20 □	200	100	50	860	0.68	400
EPIMSC0805C-R22 □	220	100	50	850	0.70	400
EPIMSC0805C-R24 □	240	100	44	690	1.00	350
EPIMSC0805C-R25 □	250	100	45	660	1.20	350
EPIMSC0805C-R27 □	270	100	48	650	1.00	350
EPIMSC0805C-R33 □	330	100	48	600	1.40	310
EPIMSC0805C-R39 □	390	100	48	560	1.50	290
EPIMSC0805C-R47 □	470	50	33	375	1.76	250
EPIMSC0805C-R56 □	560	25	23	340	1.90	230
EPIMSC0805C-R62 □	620	25	23	220	2.20	210
EPIMSC0805C-R68 □	680	25	23	188	2.20	190
EPIMSC0805C-R82 □	820	25	23	215	2.35	180
EPIMSC0805C-1R0 □	1000	25	20	100	2.50	170

### Electrical Characteristics (EPIMSC1008C Type)

Part Number	Inductance (nH)	Test Frequency (MHz)	Q (Min.)	SRF (MHz Min.)	DCR (Max.)	Irms (mA Max.)
EPIMSC1008C-10N □	10	50	50	4100	0.08	1000
EPIMSC1008C-12N □	12	50	50	3300	0.09	1000
EPIMSC1008C-15N □	15	50	50	2500	0.10	1000
EPIMSC1008C-18N □	18	50	50	2500	0.11	1000
EPIMSC1008C-22N □	22	50	55	2400	0.12	1000
EPIMSC1008C-27N □	27	50	55	1600	0.13	1000
EPIMSC1008C-33N □	33	50	60	1600	0.14	1000
EPIMSC1008C-39N □	39	50	60	1500	0.15	1000
EPIMSC1008C-47N □	47	50	65	1500	0.16	1000
EPIMSC1008C-56N □	56	50	65	1300	0.18	1000
EPIMSC1008C-68N □	68	50	65	1300	0.20	1000
EPIMSC1008C-82N □	82	50	60	1000	0.22	1000
EPIMSC1008C-R10 □	100	25	60	1000	0.56	650
EPIMSC1008C-R12 □	120	25	60	950	0.63	650
EPIMSC1008C-R15 □	150	25	45	850	0.70	580
EPIMSC1008C-R18 □	180	25	45	750	0.77	620
EPIMSC1008C-R22 □	220	25	45	700	0.84	500
EPIMSC1008C-R27 □	270	25	45	600	0.91	500
EPIMSC1008C-R33 □	330	25	45	570	1.05	450
EPIMSC1008C-R39 □	390	25	45	500	1.12	470
EPIMSC1008C-R47 □	470	25	45	450	1.19	470